

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: March 28, 2006, 19:14:51 ; Search time 24 Seconds
(without alignments)
17.205 Million cell updates/sec

Title: US-10-706-275a-1
Perfect score: 64
Sequence: 1 ASREARKQVEKALE 14

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 174695 seqs, 29494374 residues

Total number of hits satisfying chosen parameters: 174695

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :
1: /SID55/ptcodata/1/pubppaa/US08_NEW_PUB.pep.*
2: /SID55/ptcodata/1/pubppaa/US06_NEW_PUB.pep.*
3: /SID55/ptcodata/1/pubppaa/US07_NEW_PUB.pep.*
4: /SID55/ptcodata/1/pubppaa/PCOT_NEW_PUB.pep.*
5: /SID55/ptcodata/1/pubppaa/US09_NEW_PUB.pep.*
6: /SID55/ptcodata/1/pubppaa/US10_NEW_PUB.pep.*
7: /SID55/ptcodata/1/pubppaa/US11_NEW_PUB.pep.*
8: /SID55/ptcodata/1/pubppaa/US60_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	44	68.8	153	6	US-10-467-657-7674
2	44	68.8	153	6	US-10-467-657-8432
3	44	68.8	694	7	US-11-098-686-10456
4	42	65.6	394	6	US-10-821-234-1626
5	42	65.6	864	7	US-11-053-100-58
6	40	62.5	284	6	US-10-131-826A-118
7	40	62.5	284	6	US-10-973-115B-118
8	39	60.9	392	6	US-10-453-372-632
9	39	60.9	392	6	US-10-453-372-634
10	39	60.9	396	6	US-10-453-372-620
11	39	60.9	442	6	US-10-453-372-618
12	39	60.9	442	6	US-10-453-372-626
13	39	60.9	442	6	US-10-453-372-628
14	39	60.9	442	6	US-10-453-372-630
15	39	60.9	442	6	US-10-453-372-636
16	39	60.9	442	6	US-10-877-346-19
17	39	60.9	442	6	US-10-877-346-21
18	39	60.9	442	6	US-10-877-346-23
19	39	60.9	442	6	US-10-877-346-55
20	39	60.9	442	6	US-10-877-346-56
21	39	60.9	459	6	US-10-821-234-896
22	39	60.9	468	6	US-10-453-372-624
23	39	60.9	470	6	US-10-453-372-622
24	39	60.9	611	6	US-10-330-773-553
25	38	59.4	2760	7	US-11-124-367A-444

26	38	59.4	2803	7	US-11-124-367A-442	Sequence 442, App
27	38	59.4	2803	7	US-11-124-367A-445	Sequence 445, App
28	38	59.4	2984	7	US-11-124-367A-443	Sequence 443, App
29	38	59.4	3027	7	US-11-124-367A-441	Sequence 441, App
30	37	57.8	129	7	US-11-096-568A-24630	Sequence 24630, A
31	37	57.8	122	7	US-11-096-568A-24629	Sequence 24629, A
32	37	57.8	145	7	US-11-096-568A-24628	Sequence 24628, A
33	37	57.8	200	6	US-10-793-626-1186	Sequence 1186, App
34	37	57.8	200	6	US-10-793-626-2390	Sequence 2390, App
35	37	57.8	355	7	US-11-087-099-11843	Sequence 11843, A
36	36	56.2	199	7	US-11-096-568A-3496	Sequence 3496, App
37	36	56.2	217	7	US-11-096-568A-3495	Sequence 3495, App
38	36	56.2	269	7	US-11-096-568A-32889	Sequence 32889, A
39	36	56.2	350	7	US-11-096-568A-32888	Sequence 32888, A
40	36	56.2	368	7	US-11-096-568A-32887	Sequence 32887, A
41	36	56.2	567	6	US-10-330-773-556	Sequence 556, App
42	36	56.2	582	6	US-10-330-773-558	Sequence 558, App
43	36	56.2	897	7	US-11-087-099-8319	Sequence 8319, App
44	36	56.2	1285	7	US-11-206-071-2	Sequence 2, App11
45	35	54.7	107	6	US-10-867-662-2	Sequence 2, App11
46	35	54.7	114	6	US-10-867-662-6	Sequence 6, App11
47	35	54.7	121	6	US-10-867-662-8	Sequence 8, App11
48	35	54.7	128	6	US-10-867-662-8	Sequence 8, App11
49	35	54.7	161	7	US-11-096-568A-8876	Sequence 8876, App
50	35	54.7	171	7	US-11-096-568A-8875	Sequence 8875, App
51	35	54.7	195	7	US-11-098-686-10945	Sequence 10945, A
52	35	54.7	229	7	US-11-096-568A-20262	Sequence 20262, A
53	35	54.7	255	7	US-11-096-568A-33925	Sequence 33925, A
54	35	54.7	263	7	US-11-096-568A-33924	Sequence 33924, A
55	35	54.7	266	7	US-11-096-568A-8874	Sequence 8874, App
56	35	54.7	266	7	US-11-096-568A-8877	Sequence 8877, App
57	35	54.7	281	7	US-11-179-977-5	Sequence 5, App11
58	35	54.7	285	7	US-11-096-568A-33923	Sequence 33923, A
59	35	54.7	337	7	US-11-126-313-20	Sequence 20, App1
60	35	54.7	337	7	US-11-126-313-21	Sequence 21, App1
61	35	54.7	354	7	US-11-189-817-2	Sequence 2, App11
62	35	54.7	365	6	US-10-875-716-9	Sequence 9, App11
63	35	54.7	394	7	US-11-052-554A-79	Sequence 79, App1
64	35	54.7	400	7	US-11-087-099-4318	Sequence 4318, App
65	35	54.7	403	7	US-11-087-099-10237	Sequence 10237, A
66	35	54.7	425	7	US-11-037-243-92	Sequence 92, App1
67	35	54.7	452	7	US-11-087-099-2046	Sequence 2046, App
68	35	54.7	568	6	US-10-714-887-224	Sequence 224, App
69	35	54.7	606	7	US-11-126-313-23	Sequence 23, App1
70	35	54.7	1786	7	US-11-196-400-3	Sequence 3, App11
71	34	53.1	143	6	US-10-510-386-90	Sequence 90, App1
72	34	53.1	149	6	US-10-454-437-258	Sequence 258, App
73	34	53.1	276	7	US-11-072-512-3850	Sequence 3850, App
74	34	53.1	291	7	US-11-096-568A-32680	Sequence 32680, A
75	34	53.1	343	7	US-11-096-568A-32679	Sequence 32679, A
76	34	53.1	353	7	US-11-096-568A-32678	Sequence 32678, A
77	34	53.1	366	6	US-10-510-386-42	Sequence 42, App1
78	34	53.1	373	7	US-11-096-568A-22129	Sequence 22129, A
79	34	53.1	377	7	US-11-096-568A-10980	Sequence 10980, A
80	34	53.1	412	7	US-11-096-568A-22128	Sequence 22128, A
81	34	53.1	413	7	US-11-096-568A-10979	Sequence 10979, A
82	34	53.1	414	7	US-11-072-512-3443	Sequence 3443, App
83	34	53.1	625	6	US-10-510-386-6	Sequence 6, App11
84	34	53.1	693	6	US-10-873-528-185	Sequence 185, App
85	34	53.1	701	7	US-11-052-554A-231	Sequence 231, App
86	34	53.1	706	7	US-11-087-099-5548	Sequence 5548, App
87	34	53.1	902	7	US-11-098-686-11082	Sequence 11082, A
88	34	53.1	903	7	US-11-072-512-2951	Sequence 2951, App
89	34	53.1	934	7	US-11-098-686-10139	Sequence 10139, A
90	34	53.1	1141	7	US-11-072-512-2522	Sequence 2522, App
91	34	53.1	1440	7	US-11-096-568A-28130	Sequence 28130, App
92	34	53.1	1441	7	US-11-096-568A-28129	Sequence 28129, A
93	34	53.1	1449	7	US-11-052-554A-237	Sequence 237, App
94	34	53.1	1463	7	US-11-096-568A-14692	Sequence 14692, A
95	34	53.1	1473	7	US-11-096-568A-14691	Sequence 14691, A
96	34	53.1	1490	7	US-11-096-568A-28128	Sequence 28128, A
97	34	53.1	1529	7	US-11-096-568A-14690	Sequence 14690, A
98	34	53.1	2135	7	US-11-203-806A-12	Sequence 12, App1

99	33.5	52.3	223	7	US-11-096-568A-7490	Sequence 7490, App	172	32	50.0	338	6	US-10-454-437-262	Sequence 262, App
100	33.5	52.3	304	7	US-11-096-568A-7489	Sequence 7489, App	173	32	50.0	338	7	US-11-055-822-286	Sequence 286, App
101	33.5	52.3	312	7	US-11-096-568A-7488	Sequence 7488, App	174	32	50.0	338	7	US-11-055-822-622	Sequence 622, App
102	33.5	52.3	336	6	US-10-821-234-957	Sequence 957, App	175	32	50.0	331	7	US-11-087-099-8815	Sequence 8815, App
103	33.5	52.3	576	6	US-10-530-340-512	Sequence 12, App1	176	32	50.0	361	7	US-11-040-595-2	Sequence 2, App11
104	33	51.6	98	7	US-11-082-381-11	Sequence 11, App1	177	32	50.0	376	7	US-11-087-099-2969	Sequence 2969, App
105	33	51.6	101	7	US-11-082-381-1	Sequence 1, App1	178	32	50.0	384	7	US-11-219-282-19	Sequence 19, App1
106	33	51.6	114	6	US-10-467-657-068	Sequence 6068, App	179	32	50.0	385	7	US-11-096-568A-17325	Sequence 17325, App
107	33	51.6	114	6	US-10-867-662-10	Sequence 10, App1	180	32	50.0	386	7	US-11-096-568A-17324	Sequence 17324, App
108	33	51.6	115	7	US-11-172-740-2421	Sequence 2421, App	181	32	50.0	411	7	US-11-072-512-3452	Sequence 3452, App
109	33	51.6	144	6	US-10-508-263-40	Sequence 40, App1	182	32	50.0	444	6	US-10-878-556A-34	Sequence 34, App1
110	33	51.6	196	7	US-11-096-568A-24825	Sequence 24825, App	183	32	50.0	432	6	US-10-467-657-7234	Sequence 7234, App
111	33	51.6	211	7	US-11-096-568A-24824	Sequence 24824, App	184	32	50.0	445	7	US-11-087-099-11856	Sequence 11856, App
112	33	51.6	226	7	US-11-096-568A-16618	Sequence 16618, App	185	32	50.0	448	7	US-11-124-367A-282	Sequence 282, App
113	33	51.6	236	7	US-11-096-568A-25135	Sequence 25135, App	186	32	50.0	449	7	US-11-096-568A-17323	Sequence 17323, App
114	33	51.6	275	7	US-11-096-568A-32304	Sequence 32304, App	187	32	50.0	472	7	US-11-169-041-156	Sequence 156, App
115	33	51.6	276	6	US-10-873-528-134	Sequence 134, App	188	32	50.0	473	7	US-11-152-366-34	Sequence 34, App1
116	33	51.6	299	7	US-11-156-084-47	Sequence 47, App1	189	32	50.0	514	6	US-10-821-234-1511	Sequence 1511, App
117	33	51.6	302	7	US-11-096-568A-25134	Sequence 25134, App	190	32	50.0	517	6	US-10-485-517-310	Sequence 310, App
118	33	51.6	308	7	US-11-172-740-1241	Sequence 1241, App	191	32	50.0	615	7	US-11-087-099-9430	Sequence 9420, App
119	33	51.6	319	7	US-11-096-568A-25133	Sequence 25133, App	192	32	50.0	626	7	US-11-072-512-2139	Sequence 2139, App
120	33	51.6	330	7	US-11-156-084-27	Sequence 27, App1	193	32	50.0	644	6	US-10-793-626-1436	Sequence 1436, App
121	33	51.6	330	7	US-11-156-084-48	Sequence 48, App1	194	32	50.0	653	6	US-10-821-234-1286	Sequence 1286, App
122	33	51.6	333	7	US-11-127-877-57	Sequence 57, App1	195	32	50.0	702	6	US-10-510-386-214	Sequence 214, App
123	33	51.6	364	7	US-11-096-568A-16617	Sequence 16617, App	196	32	50.0	718	6	US-10-878-556A-97	Sequence 97, App1
124	33	51.6	375	6	US-10-793-626-2918	Sequence 2918, App	197	32	50.0	745	7	US-11-087-099-5760	Sequence 5760, App
125	33	51.6	376	7	US-11-087-099-2815	Sequence 2815, App	198	32	50.0	746	7	US-11-074-176-314	Sequence 314, App
126	33	51.6	377	7	US-11-172-740-1748	Sequence 1748, App	199	32	50.0	801	7	US-11-074-176-54	Sequence 54, App1
127	33	51.6	383	7	US-11-096-568A-16616	Sequence 16616, App	200	32	50.0	801	7	US-11-200-2968-69	Sequence 69, App1
128	33	51.6	396	7	US-11-232-405A-38	Sequence 38, App1	201	32	50.0	805	7	US-11-108-539-2	Sequence 2, App11
129	33	51.6	416	6	US-10-793-626-1462	Sequence 1462, App	202	32	50.0	812	7	US-11-072-512-2027	Sequence 2027, App
130	33	51.6	434	6	US-10-510-386-174	Sequence 174, App	203	32	50.0	848	7	US-11-108-539-4	Sequence 4, App11
131	33	51.6	435	7	US-11-096-568A-32325	Sequence 32325, App	204	32	50.0	901	6	US-10-793-626-342	Sequence 342, App
132	33	51.6	445	6	US-10-467-657-1584	Sequence 1584, App	205	32	50.0	919	6	US-10-821-234-951	Sequence 951, App
133	33	51.6	495	7	US-11-099-687-34	Sequence 34, App1	206	32	50.0	1089	7	US-11-087-099-7653	Sequence 7653, App
134	33	51.6	504	7	US-11-087-099-1053	Sequence 1053, App	207	32	50.0	1095	6	US-10-793-626-3154	Sequence 3154, App
135	33	51.6	523	7	US-11-096-568A-15358	Sequence 15358, App	208	32	50.0	1212	6	US-10-501-035-374	Sequence 374, App
136	33	51.6	539	7	US-11-096-568A-32324	Sequence 32324, App	209	32	50.0	1214	7	US-11-096-568A-28242	Sequence 28242, App
137	33	51.6	540	7	US-11-096-568A-32323	Sequence 32323, App	210	32	50.0	1221	7	US-11-096-568A-29337	Sequence 29337, App
138	33	51.6	542	7	US-11-096-568A-34367	Sequence 34367, App	211	32	50.0	1222	7	US-11-096-568A-29341	Sequence 29341, App
139	33	51.6	623	7	US-11-096-568A-34366	Sequence 34366, App	212	32	50.0	1229	7	US-11-096-568A-29336	Sequence 29336, App
140	33	51.6	634	7	US-11-096-568A-15357	Sequence 15357, App	213	32	50.0	1240	7	US-11-096-568A-29240	Sequence 29240, App
141	33	51.6	635	7	US-11-096-568A-15356	Sequence 15356, App	214	32	50.0	1245	7	US-11-096-568A-29335	Sequence 29335, App
142	33	51.6	646	7	US-11-096-568A-34365	Sequence 34365, App	215	32	50.0	1268	6	US-10-995-561-918	Sequence 918, App
143	33	51.6	751	7	US-11-012-762-26	Sequence 26, App1	216	32	50.0	1268	6	US-10-995-561-919	Sequence 919, App
144	33	51.6	1343	7	US-11-115-639-37	Sequence 37, App1	217	32	50.0	1268	6	US-10-995-561-920	Sequence 920, App
145	33	51.6	1343	7	US-11-115-639-38	Sequence 38, App1	218	32	50.0	1279	6	US-10-793-626-3188	Sequence 3188, App
146	33	51.6	1343	7	US-11-115-639-39	Sequence 39, App1	219	32	50.0	1310	7	US-11-096-568A-28552	Sequence 28552, App
147	33	51.6	1343	7	US-11-115-639-40	Sequence 40, App1	220	32	50.0	1358	7	US-11-096-568A-28551	Sequence 28551, App
148	33	51.6	1343	7	US-11-115-639-41	Sequence 41, App1	221	32	50.0	1358	7	US-11-096-568A-28550	Sequence 28550, App
149	33	51.6	1597	6	US-10-877-346-81	Sequence 41, App1	222	32	50.0	1368	6	US-10-501-035-350	Sequence 350, App
150	33	51.6	1641	6	US-10-877-346-80	Sequence 40, App1	223	32	50.0	1385	7	US-11-119-330-2	Sequence 2, App11
151	33	51.6	1960	6	US-11-069-834-48	Sequence 48, App1	224	32	50.0	1985	7	US-11-173-792-3	Sequence 3, App11
152	33	51.6	2053	6	US-10-877-346-11	Sequence 11, App1	225	32	50.0	1985	7	US-11-173-792-15	Sequence 15, App1
153	33	51.6	2066	6	US-10-877-346-9	Sequence 9, App1	226	32	50.0	1985	7	US-11-173-792-17	Sequence 17, App1
154	33	51.6	3748	7	US-11-132-686-8	Sequence 8, App1	227	32	49.2	410	7	US-11-159-428-10	Sequence 10, App1
155	33	51.6	3749	7	US-11-132-686-6	Sequence 6, App1	228	32	49.2	1855	7	US-11-096-568A-31249	Sequence 31249, App
156	33	51.6	3749	7	US-11-132-686-12	Sequence 12, App1	229	32	49.2	1885	7	US-11-096-568A-31248	Sequence 31248, App
157	33	51.6	3912	7	US-11-132-686-7	Sequence 7, App1	230	32	49.2	1992	7	US-11-096-568A-31247	Sequence 31247, App
158	33	51.6	3913	7	US-11-132-686-5	Sequence 5, App1	231	32	48.4	49	6	US-10-467-657-6150	Sequence 6150, App
159	33	51.6	3913	7	US-11-132-686-9	Sequence 9, App1	232	32	48.4	78	7	US-11-129-143-158	Sequence 158, App
160	32.5	50.8	1155	7	US-11-096-666-10550	Sequence 10550, App	233	32	48.4	94	7	US-11-172-740-958	Sequence 958, App
161	32.5	50.0	12	5	US-09-801-540A-13	Sequence 13, App1	234	32	48.4	96	7	US-11-172-740-958	Sequence 958, App
162	32	50.0	152	7	US-11-055-822-288	Sequence 288, App	235	32	48.4	102	7	US-11-014-842-43	Sequence 43, App1
163	32	50.0	152	7	US-11-055-822-624	Sequence 624, App	236	32	48.4	109	7	US-11-096-568A-7086	Sequence 7086, App
164	32	50.0	182	7	US-11-087-099-4716	Sequence 4716, App	237	32	48.4	115	7	US-11-172-740-2422	Sequence 2422, App
165	32	50.0	188	6	US-10-131-826A-2	Sequence 2, App1	238	32	48.4	118	6	US-10-510-386-136	Sequence 136, App
166	32	50.0	188	6	US-10-821-234-1316	Sequence 1316, App	239	32	48.4	122	7	US-11-096-568A-7085	Sequence 7085, App
167	32	50.0	188	6	US-10-973-115B-2	Sequence 2, App1	240	32	48.4	123	7	US-11-087-099-414	Sequence 414, App
168	32	50.0	205	6	US-11-172-740-1459	Sequence 1459, App	241	32	48.4	134	7	US-11-096-568A-25316	Sequence 25316, App
169	32	50.0	239	6	US-10-821-234-1259	Sequence 1259, App	242	32	48.4	132	7	US-11-096-568A-2966	Sequence 2966, App
170	32	50.0	275	6	US-10-330-773-639	Sequence 639, App	243	32	48.4	133	7	US-11-096-568A-20141	Sequence 20141, App
171	32	50.0	325	7	US-11-052-554A-356	Sequence 356, App	244	32	48.4	132	7	US-11-096-568A-9572	Sequence 9572, App

245	31	48.4	152	7	US-11-096-568A-24420	Sequence 24420, A	318	31	48.4	482	7	US-11-065-716-5	Sequence 5, Appli
246	31	48.4	160	5	US-09-978-360A-787	Sequence 787, App	319	31	48.4	490	7	US-11-065-716-16	Sequence 16, Appl
247	31	48.4	160	5	US-11-096-568A-2965	Sequence 2965, Ap	320	31	48.4	496	7	US-11-087-099-2202	Sequence 2202, Ap
248	31	48.4	165	6	US-10-330-773-971	Sequence 971, App	321	31	48.4	499	7	US-11-096-568A-5588	Sequence 5588, Ap
249	31	48.4	167	7	US-11-087-099-2529	Sequence 2529, App	322	31	48.4	509	7	US-11-065-716-1	Sequence 1, Appli
250	31	48.4	169	6	US-10-821-234-1380	Sequence 1380, Ap	323	31	48.4	509	7	US-11-065-716-7	Sequence 7, Appli
251	31	48.4	169	6	US-11-096-568A-5435	Sequence 5435, Ap	324	31	48.4	509	7	US-11-098-686-10996	Sequence 10996, A
252	31	48.4	169	7	US-11-172-740-1188	Sequence 1188, Ap	325	31	48.4	520	7	US-11-096-568A-25417	Sequence 25417, A
253	31	48.4	174	6	US-11-055-822-552	Sequence 552, App	326	31	48.4	526	7	US-11-072-512-3582	Sequence 3582, Ap
254	31	48.4	193	6	US-10-467-657-2464	Sequence 2464, Ap	327	31	48.4	545	7	US-11-096-568A-5587	Sequence 5587, Ap
255	31	48.4	198	7	US-11-096-568A-20140	Sequence 20140, A	328	31	48.4	545	7	US-11-096-568A-25416	Sequence 25416, A
256	31	48.4	206	7	US-11-096-568A-5434	Sequence 5434, Ap	329	31	48.4	546	7	US-11-072-512-2051	Sequence 2051, Ap
257	31	48.4	231	6	US-10-330-773-968	Sequence 968, App	330	31	48.4	554	7	US-11-098-686-11102	Sequence 11102, A
258	31	48.4	233	7	US-11-096-568A-9571	Sequence 9571, Ap	331	31	48.4	574	7	US-11-087-099-632	Sequence 632, App
259	31	48.4	233	7	US-11-096-568A-24419	Sequence 24419, A	332	31	48.4	577	7	US-11-072-175-187	Sequence 187, App
260	31	48.4	239	5	US-09-978-360A-659	Sequence 659, App	333	31	48.4	583	7	US-11-096-568A-25415	Sequence 25415, A
261	31	48.4	244	7	US-11-096-568A-2964	Sequence 2964, App	334	31	48.4	584	7	US-11-172-740-972	Sequence 972, App
262	31	48.4	244	7	US-11-096-568A-2966	Sequence 2967, Ap	335	31	48.4	618	7	US-11-072-512-3605	Sequence 3605, Ap
263	31	48.4	249	7	US-11-096-568A-20139	Sequence 20139, A	336	31	48.4	626	6	US-10-467-657-1772	Sequence 1772, Ap
264	31	48.4	255	7	US-11-072-512-3876	Sequence 3876, Ap	337	31	48.4	650	5	US-09-995-493-170	Sequence 170, App
265	31	48.4	256	7	US-11-087-099-7576	Sequence 7576, Ap	338	31	48.4	689	7	US-11-087-099-11650	Sequence 11650, A
266	31	48.4	258	6	US-10-873-528-165	Sequence 165, App	339	31	48.4	700	7	US-11-098-686-10793	Sequence 10793, A
267	31	48.4	269	7	US-11-087-099-11907	Sequence 11907, A	340	31	48.4	722	7	US-11-072-512-3474	Sequence 3474, Ap
268	31	48.4	270	6	US-10-491-468-4	Sequence 4, Appli	341	31	48.4	768	6	US-10-330-773-959	Sequence 959, App
269	31	48.4	288	7	US-11-096-568A-33505	Sequence 33505, A	342	31	48.4	807	7	US-11-087-099-10455	Sequence 10455, A
270	31	48.4	297	7	US-11-096-568A-24418	Sequence 24418, A	343	31	48.4	817	6	US-10-793-626-2948	Sequence 2948, Ap
271	31	48.4	304	7	US-11-096-568A-33504	Sequence 33504, A	344	31	48.4	831	7	US-11-098-686-10875	Sequence 10875, A
272	31	48.4	304	7	US-11-172-740-1236	Sequence 1236, Ap	345	31	48.4	880	6	US-10-330-773-956	Sequence 956, App
273	31	48.4	313	6	US-10-873-528-163	Sequence 163, App	346	31	48.4	880	6	US-11-069-642-111	Sequence 11, App
274	31	48.4	322	6	US-10-689-742-46	Sequence 46, Appl	347	31	48.4	1011	7	US-11-087-099-11646	Sequence 11646, A
275	31	48.4	328	7	US-11-096-568A-3897	Sequence 3897, Ap	348	31	48.4	1085	7	US-11-087-099-11646	Sequence 11, App
276	31	48.4	334	7	US-11-096-568A-3896	Sequence 3896, Ap	349	31	48.4	1167	7	US-11-052-554A-912	Sequence 912, App
277	31	48.4	334	7	US-11-172-740-45	Sequence 45, Appl	350	31	48.4	1316	7	US-11-091-643-4	Sequence 4, Appli
278	31	48.4	337	7	US-11-087-099-6276	Sequence 6276, Ap	351	31	48.4	1332	7	US-11-091-643-18	Sequence 18, Appl
279	31	48.4	343	7	US-11-098-686-11280	Sequence 11280, A	352	31	48.4	1340	7	US-11-070-575-6	Sequence 6, Appli
280	31	48.4	354	7	US-11-087-099-1235	Sequence 1235, Ap	353	31	48.4	1344	7	US-11-091-643-20	Sequence 20, Appl
281	31	48.4	360	7	US-11-172-740-1330	Sequence 1330, Ap	354	31	48.4	1347	7	US-11-087-099-5370	Sequence 5370, Ap
282	31	48.4	375	7	US-11-096-568A-10981	Sequence 10981, A	355	31	48.4	1386	7	US-11-091-643-6	Sequence 6, Appli
283	31	48.4	378	7	US-11-096-568A-8228	Sequence 8228, Ap	356	31	48.4	1403	7	US-11-087-099-1219	Sequence 1219, Ap
284	31	48.4	378	7	US-11-172-740-1329	Sequence 1329, Ap	357	31	48.4	1404	6	US-10-878-556A-169	Sequence 169, App
285	31	48.4	383	6	US-11-073-626-386	Sequence 386, App	358	31	48.4	1732	6	US-10-055-877-147	Sequence 147, App
286	31	48.4	385	6	US-11-087-099-10386	Sequence 10386, A	359	31	48.4	1927	7	US-11-087-099-5472	Sequence 5472, Ap
287	31	48.4	388	7	US-11-096-568A-3895	Sequence 3895, Ap	360	31	48.4	2295	7	US-11-087-099-9450	Sequence 9450, Ap
288	31	48.4	410	7	US-11-096-568A-22880	Sequence 22820, A	361	31	48.4	2640	7	US-11-087-099-9331	Sequence 9331, Ap
289	31	48.4	411	7	US-11-096-568A-32265	Sequence 32265, A	362	31	48.4	2640	7	US-11-087-099-11966	Sequence 11966, A
290	31	48.4	412	7	US-11-087-099-10106	Sequence 10106, A	363	31	48.4	8746	7	US-11-098-686-10232	Sequence 10232, A
291	31	48.4	413	7	US-11-096-568A-8227	Sequence 8227, Ap	364	31	48.4	861	7	US-11-096-568A-33217	Sequence 33217, A
292	31	48.4	414	7	US-11-089-551A-28	Sequence 28, Appl	365	31	48.4	881	7	US-11-096-568A-33516	Sequence 33516, A
293	31	48.4	417	7	US-11-087-099-1146	Sequence 1146, Ap	366	30.5	47.7	1069	7	US-11-096-568A-33515	Sequence 33515, A
294	31	48.4	418	6	US-10-995-561-753	Sequence 753, App	367	30.5	47.7	1081	7	US-11-142-700-29	Sequence 29, Appl
295	31	48.4	418	6	US-10-995-561-754	Sequence 754, App	368	30.5	47.7	1663	6	US-10-055-877-148	Sequence 148, App
296	31	48.4	418	6	US-10-995-561-755	Sequence 755, App	369	30	46.9	91	7	US-10-467-657-7092	Sequence 7092, Ap
297	31	48.4	418	6	US-10-995-561-756	Sequence 756, App	370	30	46.9	92	5	US-11-194-246-405	Sequence 405, App
298	31	48.4	418	6	US-10-995-561-757	Sequence 757, App	371	30	46.9	92	5	US-09-978-360A-754	Sequence 754, App
299	31	48.4	418	6	US-10-995-561-758	Sequence 758, App	372	30	46.9	105	7	US-11-000-463-741	Sequence 741, App
300	31	48.4	418	6	US-10-995-561-759	Sequence 759, App	373	30	46.9	127	7	US-11-096-568A-6190	Sequence 6190, Ap
301	31	48.4	418	7	US-11-177-506-27	Sequence 27, Appl	374	30	46.9	127	7	US-11-000-463-269	Sequence 269, App
302	31	48.4	418	7	US-11-183-205-22	Sequence 22, Appl	375	30	46.9	127	7	US-11-096-568A-5276	Sequence 5276, Ap
303	31	48.4	422	6	US-10-878-556A-172	Sequence 172, App	376	30	46.9	128	7	US-11-098-686-11175	Sequence 11175, A
304	31	48.4	423	7	US-11-110-851-2	Sequence 2, Appli	377	30	46.9	133	7	US-11-096-568A-6189	Sequence 6189, Ap
305	31	48.4	428	7	US-11-096-568A-22819	Sequence 22819, A	378	30	46.9	139	7	US-11-013-247A-11	Sequence 11, App
306	31	48.4	444	7	US-11-087-099-9103	Sequence 9103, Ap	379	30	46.9	140	7	US-11-098-686-10643	Sequence 10643, A
307	31	48.4	448	7	US-11-065-716-4	Sequence 4, Appli	380	30	46.9	154	6	US-10-793-626-712	Sequence 712, App
308	31	48.4	448	7	US-11-096-568A-8226	Sequence 8226, Ap	381	30	46.9	158	7	US-11-087-099-2697	Sequence 2697, Ap
309	31	48.4	452	7	US-11-087-099-296	Sequence 296, App	382	30	46.9	158	7	US-11-087-099-6487	Sequence 6487, Ap
310	31	48.4	462	7	US-11-065-716-46	Sequence 46, Appl	383	30	46.9	160	7	US-11-098-686-10384	Sequence 10384, Ap
311	31	48.4	466	7	US-11-072-512-2410	Sequence 2410, Ap	384	30	46.9	165	7	US-11-098-686-10784	Sequence 10784, A
312	31	48.4	467	7	US-11-065-716-49	Sequence 49, Appl	385	30	46.9	166	7	US-11-087-099-7167	Sequence 7167, Ap
313	31	48.4	470	7	US-11-072-512-2022	Sequence 2022, Ap	386	30	46.9	168	7	US-11-096-568A-5275	Sequence 5275, Ap
314	31	48.4	474	7	US-11-065-716-3	Sequence 3, Appli	387	30	46.9	176	7	US-11-096-568A-17197	Sequence 17197, A
315	31	48.4	474	7	US-11-222-641-8	Sequence 8, Appli	388	30	46.9	180	7	US-11-087-099-10224	Sequence 10224, A
316	31	48.4	477	7	US-11-096-568A-32264	Sequence 32264, A	389	30	46.9	184	7	US-11-096-568A-7630	Sequence 7630, Ap
317	31	48.4	479	7	US-11-096-568A-5589	Sequence 5589, Ap	390	30	46.9	186	7	US-11-096-568A-1431	Sequence 1431, Ap

391	30	46.9	187	7	US-11-096-568A-32231	Sequence 32231, A	464	30	46.9	435	7	US-11-087-099-11623	Sequence 11623, A	
392	30	46.9	190	7	US-11-096-568A-1997	Sequence 1997, Ap	465	30	46.9	448	7	US-11-013-247A-5	Sequence 5, Appl1	
393	30	46.9	191	7	US-11-096-568A-7629	Sequence 7629, Ap	466	30	46.9	449	7	US-11-010-239-26	Sequence 26, Appl1	
394	30	46.9	192	7	US-11-087-099-9855	Sequence 9855, Ap	467	30	46.9	449	7	US-11-177-506-32	Sequence 32, Appl1	
395	30	46.9	194	7	US-11-096-568A-7628	Sequence 7628, Ap	468	30	46.9	444	7	US-11-096-568A-20970	Sequence 20970, A	
396	30	46.9	198	6	US-10-467-657-162	Sequence 162, App	469	30	46.9	455	7	US-11-096-568A-25490	Sequence 25490, A	
397	30	46.9	198	6	US-10-467-657-3058	Sequence 3058, Ap	470	30	46.9	458	7	US-11-096-568A-11092	Sequence 11092, A	
398	30	46.9	200	7	US-11-096-568A-27083	Sequence 27083, A	471	30	46.9	453	6	US-10-821-334-1094	Sequence 1094, Ap	
399	30	46.9	208	7	US-11-096-568A-1996	Sequence 1996, Ap	472	30	46.9	470	6	US-10-511-989-171	Sequence 171, App	
400	30	46.9	221	7	US-11-087-099-2693	Sequence 2693, Ap	473	30	46.9	472	7	US-11-150-845-48	Sequence 48, Appl	
401	30	46.9	221	6	US-10-467-657-1514	Sequence 1514, Ap	474	30	46.9	475	7	US-11-096-568A-11091	Sequence 11091, A	
402	30	46.9	237	6	US-10-821-234-943	Sequence 943, App	475	30	46.9	477	7	US-11-075-185-27	Sequence 27, Appl	
403	30	46.9	235	7	US-11-096-568A-20972	Sequence 20972, A	476	30	46.9	480	7	US-11-096-568A-7754	Sequence 7754, Ap	
404	30	46.9	239	7	US-11-165-211-58	Sequence 38, Appl	477	30	46.9	482	7	US-11-096-568A-23935	Sequence 23935, A	
405	30	46.9	239	7	US-11-165-226-88	Sequence 48, Appl	478	30	46.9	483	7	US-11-087-099-1862	Sequence 1862, Ap	
406	30	46.9	240	6	US-10-689-742-210	Sequence 2174, App	479	30	46.9	484	7	US-11-126-113-24	Sequence 24, Appl	
407	30	46.9	248	7	US-11-096-568A-5274	Sequence 5274, Ap	480	30	46.9	484	7	US-11-087-099-932	Sequence 932, App	
408	30	46.9	250	7	US-11-087-099-4825	Sequence 4825, Ap	481	30	46.9	484	7	US-11-096-568A-18005	Sequence 18005, A	
409	30	46.9	250	7	US-11-087-099-6372	Sequence 6372, Ap	482	30	46.9	484	7	US-11-096-568A-22824	Sequence 22824, A	
410	30	46.9	250	7	US-11-087-099-10914	Sequence 10914, Ap	483	30	46.9	484	7	US-11-096-568A-22824	Sequence 22824, A	
411	30	46.9	250	7	US-11-087-099-11714	Sequence 11714, A	484	30	46.9	484	6	US-10-507-106-2	Sequence 27011, A	
412	30	46.9	250	7	US-11-087-099-11714	Sequence 11714, A	485	30	46.9	484	6	US-10-507-106-2	Sequence 27011, A	
413	30	46.9	250	7	US-11-096-568A-4302	Sequence 4302, Ap	486	30	46.9	487	6	US-10-793-626-2812	Sequence 34206, A	
414	30	46.9	258	7	US-11-087-099-10458	Sequence 25817, A	487	30	46.9	487	6	US-10-793-626-2812	Sequence 2812, Ap	
415	30	46.9	258	7	US-11-087-099-10458	Sequence 10458, A	488	30	46.9	488	7	US-11-087-099-11028	Sequence 7798, Ap	
416	30	46.9	261	7	US-11-096-568A-4301	Sequence 4301, Ap	489	30	46.9	490	7	US-11-013-247A-2	Sequence 11028, A	
417	30	46.9	266	7	US-11-087-099-12008	Sequence 12008, A	490	30	46.9	490	6	US-10-467-657-5234	Sequence 5234, Ap	
418	30	46.9	269	7	US-11-087-099-5777	Sequence 5777, Ap	491	30	46.9	491	508	7	US-11-087-099-9085	Sequence 9085, Ap
419	30	46.9	277	7	US-11-096-568A-4300	Sequence 4300, Ap	492	30	46.9	492	7	US-11-242-730-12	Sequence 12, Appl	
420	30	46.9	279	7	US-11-172-740-0183	Sequence 2183, Ap	493	30	46.9	493	7	US-11-087-099-1119	Sequence 1119, Ap	
421	30	46.9	285	7	US-11-135-739-11	Sequence 11, Appl	494	30	46.9	494	529	7	US-11-013-247A-17	Sequence 17, Appl
422	30	46.9	285	7	US-11-096-568A-4581	Sequence 4581, Ap	495	30	46.9	495	7	US-11-096-568A-11090	Sequence 11090, A	
423	30	46.9	288	7	US-10-873-528-100	Sequence 100, App	496	30	46.9	496	529	7	US-11-096-568A-11090	Sequence 22823, A
424	30	46.9	289	7	US-11-087-099-11574	Sequence 11574, A	497	30	46.9	497	544	7	US-11-018-868-29	Sequence 868, A
425	30	46.9	307	7	US-11-000-463-244	Sequence 8667, Ap	498	30	46.9	498	545	7	US-11-065-943-65	Sequence 65, Appl
426	30	46.9	310	6	US-10-467-657-1590	Sequence 1590, Ap	499	30	46.9	499	545	7	US-11-065-943-67	Sequence 67, Appl
427	30	46.9	318	7	US-11-096-568A-4387	Sequence 4387, Ap	500	30	46.9	500	545	7	US-11-065-943-69	Sequence 69, Appl
428	30	46.9	328	7	US-11-087-099-9553	Sequence 9553, Ap	501	30	46.9	501	545	7	US-11-065-943-73	Sequence 73, Appl
429	30	46.9	330	7	US-11-087-099-10594	Sequence 10594, A	502	30	46.9	502	545	7	US-11-065-943-75	Sequence 75, Appl
430	30	46.9	340	7	US-11-096-568A-27013	Sequence 27013, A	503	30	46.9	503	545	7	US-11-065-943-77	Sequence 77, Appl
431	30	46.9	341	7	US-11-055-822-570	Sequence 570, App	504	30	46.9	504	545	7	US-11-065-943-79	Sequence 79, Appl
432	30	46.9	341	7	US-11-055-822-574	Sequence 574, App	505	30	46.9	505	545	7	US-11-065-943-81	Sequence 81, Appl
433	30	46.9	342	7	US-11-152-892-11	Sequence 11, Appl	506	30	46.9	506	545	7	US-11-065-943-83	Sequence 83, Appl
434	30	46.9	343	7	US-11-072-512-3068	Sequence 3068, Ap	507	30	46.9	507	545	7	US-11-065-943-85	Sequence 85, Appl
435	30	46.9	346	7	US-11-087-099-5613	Sequence 5613, Ap	508	30	46.9	508	545	7	US-11-065-943-87	Sequence 87, Appl
436	30	46.9	347	7	US-11-072-512-2844	Sequence 2844, Ap	509	30	46.9	509	545	7	US-11-065-943-89	Sequence 89, Appl
437	30	46.9	350	6	US-10-873-528-132	Sequence 132, App	510	30	46.9	510	545	7	US-11-065-943-91	Sequence 91, Appl
438	30	46.9	355	7	US-11-087-099-3295	Sequence 3295, Ap	511	30	46.9	511	545	7	US-11-065-943-93	Sequence 93, Appl
439	30	46.9	356	7	US-11-087-099-3095	Sequence 3095, Ap	512	30	46.9	512	545	7	US-11-065-943-95	Sequence 95, Appl
440	30	46.9	358	6	US-10-770-726-60	Sequence 60, Appl	513	30	46.9	513	545	7	US-11-065-943-97	Sequence 97, Appl
441	30	46.9	362	7	US-11-013-247A-7	Sequence 7, Appl1	514	30	46.9	514	545	7	US-11-065-943-99	Sequence 99, Appl
442	30	46.9	364	7	US-11-013-247A-6	Sequence 6, Appl1	515	30	46.9	515	547	7	US-11-096-568A-20824	Sequence 20824, A
443	30	46.9	369	7	US-11-096-568A-33419	Sequence 33419, A	516	30	46.9	516	548	7	US-11-198-746-86	Sequence 86, Appl
444	30	46.9	372	7	US-11-197-133A-14	Sequence 14, Appl	517	30	46.9	517	548	7	US-11-198-746-86	Sequence 86, Appl
445	30	46.9	376	7	US-11-172-740-779	Sequence 779, App	518	30	46.9	518	548	7	US-11-198-746-86	Sequence 86, Appl
446	30	46.9	391	7	US-11-096-568A-25492	Sequence 25492, A	519	30	46.9	519	548	7	US-11-096-568A-26924	Sequence 26924, A
447	30	46.9	395	7	US-11-096-568A-18007	Sequence 18007, A	520	30	46.9	520	548	7	US-11-096-568A-26924	Sequence 27017, A
448	30	46.9	395	7	US-11-096-568A-23937	Sequence 23937, A	521	30	46.9	521	548	6	US-10-850-816-2	Sequence 2, Appl1
449	30	46.9	396	7	US-11-087-099-930	Sequence 930, App	522	30	46.9	522	548	6	US-10-850-816-4	Sequence 4, Appl1
450	30	46.9	399	7	US-11-096-568A-7756	Sequence 7756, Ap	523	30	46.9	523	548	6	US-10-850-816-6	Sequence 6, Appl1
451	30	46.9	399	7	US-11-096-568A-18006	Sequence 18006, A	524	30	46.9	524	548	6	US-10-850-816-6	Sequence 6, Appl1
452	30	46.9	399	7	US-11-096-568A-22825	Sequence 22825, A	525	30	46.9	525	548	6	US-10-850-816-6	Sequence 6, Appl1
453	30	46.9	399	7	US-11-096-568A-23936	Sequence 23936, A	526	30	46.9	526	548	6	US-10-850-816-6	Sequence 6, Appl1
454	30	46.9	400	7	US-11-096-568A-20971	Sequence 20971, A	527	30	46.9	527	548	6	US-10-850-816-6	Sequence 6, Appl1
455	30	46.9	406	6	US-10-957-569-45	Sequence 15, Appl	528	30	46.9	528	548	6	US-10-850-816-6	Sequence 6, Appl1
456	30	46.9	406	7	US-11-097-589-13	Sequence 13, Appl	529	30	46.9	529	548	6	US-10-850-816-6	Sequence 6, Appl1
457	30	46.9	406	7	US-11-096-568A-34208	Sequence 34208, A	530	30	46.9	530	548	6	US-10-850-816-6	Sequence 6, Appl1
458	30	46.9	410	7	US-11-096-568A-25491	Sequence 25491, A	531	30	46.9	531	548	6	US-10-850-816-6	Sequence 6, Appl1
459	30	46.9	412	7	US-11-096-568A-33418	Sequence 33418, A	532	30	46.9	532	548	6	US-10-850-816-6	Sequence 6, Appl1
460	30	46.9	412	7	US-11-096-568A-34207	Sequence 34207, A	533	30	46.9	533	548	6	US-10-850-816-6	Sequence 6, Appl1
461	30	46.9	416	7	US-11-096-568A-27012	Sequence 27012, A	534	30	46.9	534	548	6	US-10-850-816-6	Sequence 6, Appl1
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463	30	46.9	431	7	US-11-096-568A-7755	Sequence 7755, App	536	30	46.9	536	548	6	US-10-850-816-6	Sequence 6, Appl1

537	30	46.9	588	7	US-11-022-562-210	Sequence 210, App	610	29	45.3	92	6	US-10-523-503-48	Sequence 49, Appl
538	30	46.9	600	6	US-10-878-556A-43	Sequence 43, Appl	611	29	45.3	101	7	US-11-047-757-8	Sequence 8, Appl
539	30	46.9	604	7	US-11-096-568A-27016	Sequence 27016, A	612	29	45.3	101	7	US-11-048-490-8	Sequence 8, Appl
540	30	46.9	610	7	US-11-096-568A-27015	Sequence 27015, A	613	29	45.3	104	7	US-11-232-406A-8	Sequence 8, Appl
541	30	46.9	625	6	US-10-501-035-381	Sequence 381, App	614	29	45.3	114	7	US-11-019-711-42	Sequence 42, Appl
542	30	46.9	627	7	US-11-150-845-47	Sequence 47, Appl	615	29	45.3	118	7	US-11-096-568A-23863	Sequence 23863, A
543	30	46.9	648	7	US-11-096-568A-20823	Sequence 20823, A	616	29	45.3	123	7	US-11-172-740-2416	Sequence 2416, App
544	30	46.9	663	7	US-11-096-568A-26923	Sequence 26923, A	617	29	45.3	126	7	US-11-172-740-2418	Sequence 2418, App
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546	30	46.9	677	7	US-11-135-667-39	Sequence 39, Appl	619	29	45.3	135	7	US-11-096-568A-23861	Sequence 23861, A
547	30	46.9	687	7	US-11-072-512-2651	Sequence 2651, App	620	29	45.3	136	7	US-11-096-568A-25265	Sequence 25265, A
548	30	46.9	695	7	US-11-198-746-87	Sequence 87, Appl	621	29	45.3	141	7	US-11-096-568A-10844	Sequence 10844, A
549	30	46.9	695	7	US-11-198-794-87	Sequence 87, Appl	622	29	45.3	142	7	US-11-098-686-10914	Sequence 10914, A
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555	30	46.9	756	7	US-11-072-512-2505	Sequence 2505, App	628	29	45.3	181	7	US-11-096-568A-10842	Sequence 10842, A
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558	30	46.9	784	6	US-10-467-657-5968	Sequence 5968, App	631	29	45.3	187	7	US-11-172-740-269	Sequence 269, App
559	30	46.9	805	6	US-10-467-657-1930	Sequence 1930, App	632	29	45.3	192	7	US-11-096-568A-19930	Sequence 19930, A
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563	30	46.9	832	7	US-11-198-746-4	Sequence 4, Appl	636	29	45.3	208	7	US-11-072-512-1188	Sequence 2188, App
564	30	46.9	832	7	US-11-198-794-4	Sequence 4, Appl	637	29	45.3	209	7	US-11-096-568A-1908	Sequence 1908, App
565	30	46.9	832	7	US-11-242-710-1	Sequence 1, Appl	638	29	45.3	212	7	US-11-172-740-1413	Sequence 1413, App
566	30	46.9	832	7	US-11-183-211-4	Sequence 4, Appl	639	29	45.3	219	6	US-10-793-626-22	Sequence 22, Appl
567	30	46.9	832	7	US-11-198-657-4	Sequence 4, Appl	640	29	45.3	219	7	US-11-074-176-106	Sequence 106, App
568	30	46.9	833	7	US-11-198-746-8	Sequence 8, Appl	641	29	45.3	227	6	US-10-873-528-159	Sequence 159, App
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572	30	46.9	833	7	US-11-183-211-8	Sequence 8, Appl	645	29	45.3	233	7	US-11-096-568A-2076	Sequence 2076, App
573	30	46.9	833	7	US-11-198-657-8	Sequence 8, Appl	646	29	45.3	239	7	US-11-096-568A-4091	Sequence 4091, App
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578	30	46.9	834	7	US-11-183-211-6	Sequence 6, Appl	651	29	45.3	257	7	US-11-096-568A-30602	Sequence 30602, A
579	30	46.9	834	7	US-11-198-657-6	Sequence 6, Appl	652	29	45.3	258	7	US-11-096-568A-32921	Sequence 32921, A
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591	30	46.9	1367	6	US-10-510-903-10	Sequence 10, Appl	664	29	45.3	284	7	US-11-096-568A-3105	Sequence 31905, A
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593	30	46.9	1368	6	US-10-995-561-539	Sequence 539, App	666	29	45.3	289	7	US-11-096-568A-32820	Sequence 32820, A
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595	30	46.9	1652	6	US-10-995-561-663	Sequence 663, App	668	29	45.3	294	7	US-11-096-568A-7549	Sequence 7549, App
596	30	46.9	1659	7	US-11-072-195-205	Sequence 205, App	669	29	45.3	294	7	US-11-096-568A-7675	Sequence 7675, App
597	30	46.9	1750	7	US-11-087-099-12397	Sequence 12397, A	670	29	45.3	299	7	US-11-096-568A-7548	Sequence 7548, App
598	30	46.9	1938	6	US-10-995-561-661	Sequence 661, App	671	29	45.3	300	7	US-11-156-084-446	Sequence 346, App
599	30	46.9	1938	6	US-10-995-561-662	Sequence 662, App	672	29	45.3	310	7	US-11-087-099-4210	Sequence 4210, App
600	30	46.9	1938	6	US-10-995-561-660	Sequence 660, App	673	29	45.3	313	7	US-11-087-099-9808	Sequence 9808, App
601	30	46.9	1972	6	US-10-995-561-664	Sequence 664, App	674	29	45.3	314	7	US-11-087-099-4044	Sequence 4044, App
602	30	46.9	1972	6	US-10-995-561-666	Sequence 666, App	675	29	45.3	314	7	US-11-087-099-5287	Sequence 5287, App
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605	30	46.9	3056	7	US-11-109-156-20	Sequence 20, Appl	678	29	45.3	322	7	US-11-096-568A-7674	Sequence 7674, App
606	29.5	46.1	674	7	US-11-167-048-1	Sequence 1, Appl	679	29	45.3	324	6	US-10-873-528-138	Sequence 138, App
607	29	45.3	41	6	US-10-467-657-8759	Sequence 8759, App	680	29	45.3	324	7	US-11-087-099-11792	Sequence 11792, A
608	29	45.3	65	7	US-11-087-099-348	Sequence 348, App	681	29	45.3	324	7	US-11-172-740-44	Sequence 44, Appl
609	29	45.3	82	7	US-11-087-099-11699	Sequence 11699, A	682	29	45.3	326	7	US-11-087-099-9532	Sequence 9532, App

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684	29	45.3	330	7	US-11-098-686-11233	Sequence 11233, A	757	29	45.3	472	6	US-10-511-989-168	Sequence 168, App
685	29	45.3	331	7	US-11-096-568A-32920	Sequence 32920, A	758	29	45.3	475	7	US-11-096-568A-5504	Sequence 5504, App
686	29	45.3	332	7	US-11-087-099-3470	Sequence 3470, App	759	29	45.3	485	6	US-10-793-626-1346	Sequence 1346, App
687	29	45.3	333	7	US-11-072-512-3073	Sequence 2073, App	760	29	45.3	491	7	US-11-087-099-10555	Sequence 10555, A
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691	29	45.3	346	7	US-11-051-720-1386	Sequence 1386, App	764	29	45.3	508	6	US-10-467-657-7826	Sequence 7826, App
692	29	45.3	347	7	US-11-096-568A-2075	Sequence 2075, App	765	29	45.3	508	6	US-10-934-944-238	Sequence 238, App
693	29	45.3	352	6	US-10-496-647-2	Sequence 2, App1	766	29	45.3	508	7	US-11-116-881A-247	Sequence 247, App
694	29	45.3	352	6	US-10-496-647-4	Sequence 4, App1	767	29	45.3	508	7	US-11-096-568A-30275	Sequence 30275, A
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708	29	45.3	364	7	US-11-096-568A-22516	Sequence 22516, A	781	29	45.3	633	7	US-11-098-686-11157	Sequence 11157, A
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710	29	45.3	367	7	US-11-096-568A-25243	Sequence 25243, A	783	29	45.3	633	7	US-11-087-099-1991	Sequence 1991, App
711	29	45.3	368	7	US-11-087-099-8464	Sequence 8464, App	784	29	45.3	654	7	US-11-046-668-4	Sequence 4, App1
712	29	45.3	370	7	US-11-172-740-40	Sequence 40, App1	785	29	45.3	654	7	US-11-087-099-12424	Sequence 12424, A
713	29	45.3	370	7	US-11-172-740-41	Sequence 41, App1	786	29	45.3	672	7	US-11-000-463-455	Sequence 455, App
714	29	45.3	370	7	US-11-172-740-42	Sequence 42, App1	787	29	45.3	683	7	US-11-046-668-2	Sequence 2, App1
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721	29	45.3	381	7	US-11-072-512-3313	Sequence 3313, App	794	29	45.3	747	7	US-11-018-018-1	Sequence 1, App1
722	29	45.3	383	6	US-10-485-517-356	Sequence 356, App	795	29	45.3	747	7	US-11-047-757-1	Sequence 1, App1
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726	29	45.3	389	7	US-11-010-795-16	Sequence 16, App1	799	29	45.3	748	7	US-11-098-686-10734	Sequence 10734, App
727	29	45.3	389	7	US-11-087-099-1827	Sequence 1827, App	800	29	45.3	803	6	US-10-821-234-1643	Sequence 1643, App
728	29	45.3	391	7	US-11-010-795-2	Sequence 2, App1	801	29	45.3	803	6	US-10-962-951-2	Sequence 2, App1
729	29	45.3	391	7	US-11-087-099-3754	Sequence 3754, App	802	29	45.3	832	7	US-11-182-016-8	Sequence 8, App1
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732	29	45.3	399	7	US-11-051-720-1388	Sequence 1388, App	805	29	45.3	860	7	US-11-019-711-59	Sequence 59, App1
733	29	45.3	400	7	US-11-172-740-1229	Sequence 1229, App	806	29	45.3	865	6	US-10-467-657-2302	Sequence 2302, App
734	29	45.3	401	6	US-10-131-826A-486	Sequence 486, App	807	29	45.3	866	7	US-11-087-099-11456	Sequence 11456, A
735	29	45.3	401	6	US-10-973-1158-486	Sequence 486, App	808	29	45.3	866	7	US-11-096-568A-133587	Sequence 13587, A
736	29	45.3	406	6	US-10-995-561-748	Sequence 748, App	809	29	45.3	900	6	US-10-501-035-215	Sequence 215, App
737	29	45.3	406	6	US-10-995-561-749	Sequence 749, App	810	29	45.3	974	7	US-11-096-568A-33586	Sequence 33586, App
738	29	45.3	406	6	US-10-995-561-750	Sequence 750, App	811	29	45.3	991	6	US-10-330-773-418	Sequence 418, App
739	29	45.3	406	6	US-10-995-561-751	Sequence 751, App	812	29	45.3	1025	7	US-11-096-568A-33585	Sequence 33585, A
740	29	45.3	406	6	US-10-995-561-752	Sequence 752, App	813	29	45.3	1112	7	US-11-096-568A-33821	Sequence 33821, A
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751	29	45.3	449	7	US-11-096-568A-19133	Sequence 19133, App	824	29	45.3	4334	6	US-10-821-234-1110	Sequence 1120, App
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ALIGNMENTS

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RESULT 1
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; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 7674
; LENGTH: 153
; TYPE: PRT
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US-10-467-657-7674

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; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega

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; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
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US-10-467-657-8432

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; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; TITLE OF INVENTION: FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
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; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarman, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
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RESULT 5
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; APPLICANT: CHILKOTI, Ashutosh
; TITLE OF INVENTION: FUSION PEPTIDES ISOLATABLE BY PHASE TRANSITION
; FILE REFERENCE: 4176-101 CIP
; CURRENT APPLICATION NUMBER: US/11/053,100
; PRIOR FILING DATE: 2005-02-08
; PRIOR APPLICATION NUMBER: US 09/812,382
; PRIOR FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: US 60/190,659
; PRIOR FILING DATE: 2000-03-20
; NUMBER OF SEQ ID NOS: 58
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; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
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RESULT 6
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; Publication No. US2005024530A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerltsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William

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; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; ACIDS ENCODING THE SAME
; FILE REFERENCE: P330R1C128
; CURRENT APPLICATION NUMBER: US/10/131,826A
; PRIOR FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 118
; LENGTH: 284
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-131-826A-118

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```

Query Match      62.5%; Score 40; DB 6; Length 284;
Best Local Similarity 53.8%; Pred. No. 21;
Matches 7; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy      2 SREAKQVERKALR 14
      ||::|||::|||:|
Db      180 SKAKKKEIKFELD 192

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```

RESULT 7
US-10-973-115B-118
; Sequence 118, Application US/10973115B
; Publication No. US20060040351A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerltsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING
; THE SAME
; FILE REFERENCE: 39870-3330R1C300C1
; CURRENT APPLICATION NUMBER: US/10/973,115B
; PRIOR FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: US 10/145,747
; PRIOR FILING DATE: 2002-05-14
; PRIOR APPLICATION NUMBER: US 10/028,072

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; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: US 09/581,742
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: PCT/US00/05746
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: US 60/135,736
; PRIOR FILING DATE: 1999-05-25
; PRIOR APPLICATION NUMBER: US 60/123,090
; PRIOR FILING DATE: 1999-03-05
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 118
; LENGTH: 284
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-973-115B-118

Query Match      62.5%; Score 40; DB 6; Length 284;
Best Local Similarity 53.8%; Pred. No. 21;
Matches 7; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY      2 ASREAKKOVER 14
DB      180 SKKAKKEIKERFD 192

RESULT 8
US-10-453-372-632
; Sequence 632, Application US/10453372
; Publication No. US2006003323A1
; GENERAL INFORMATION:
; APPLICANT: Alecbrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CirusSeqList version 0.1
; SEQ ID NO 632
; LENGTH: 392
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-632

Query Match      60.9%; Score 39; DB 6; Length 392;
Best Local Similarity 72.7%; Pred. No. 44;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 ASREAKKOVER 11
DB      267 ASQKAKKOVER 277
```

```

RESULT 9
US-10-453-372-634
; Sequence 634, Application US/10453372
; Publication No. US2006003323A1
; GENERAL INFORMATION:
; APPLICANT: Alecbrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CirusSeqList version 0.1
; SEQ ID NO 634
; LENGTH: 392
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-634

Query Match      60.9%; Score 39; DB 6; Length 392;
Best Local Similarity 72.7%; Pred. No. 44;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 ASREAKKOVER 11
DB      267 ASQKAKKOVER 277

RESULT 10
US-10-453-372-620
; Sequence 620, Application US/10453372
; Publication No. US2006003323A1
; GENERAL INFORMATION:
; APPLICANT: Alecbrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
```

```
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: Curseseqdist version 0.1
; SEQ ID NO 620
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-620
```

```
Query Match      60.9%; Score 39; DB 6; Length 396;
Best Local Similarity 72.7%; Pred. No. 44;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      1 ASREKKQVEK 11
||:||||:|
Db      269 ASQEKQVEK 279
```

```
RESULT 11
US-10-453-372-618
; Sequence 618, Application US/10453372
; Publication No. US2006000323A1
; GENERAL INFORMATION:
; APPLICANT: Alsebrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: Curseseqdist version 0.1
; SEQ ID NO 618
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-618
```

```
Query Match      60.9%; Score 39; DB 6; Length 442;
Best Local Similarity 72.7%; Pred. No. 50;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      1 ASREKKQVEK 11
||:||||:|
Db      317 ASQEKQVEK 327
```

```
RESULT 12
US-10-453-372-626
; Sequence 626, Application US/10453372
; Publication No. US2006000323A1
; GENERAL INFORMATION:
; APPLICANT: Alsebrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: Curseseqdist version 0.1
; SEQ ID NO 626
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-626
```

```
Query Match      60.9%; Score 39; DB 6; Length 442;
Best Local Similarity 72.7%; Pred. No. 50;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      1 ASREKKQVEK 11
||:||||:|
Db      317 ASQEKQVEK 327
```

```
RESULT 13
US-10-453-372-628
; Sequence 628, Application US/10453372
; Publication No. US2006000323A1
; GENERAL INFORMATION:
; APPLICANT: Alsebrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
```

```

; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CursSeqList version 0.1
; SEQ ID NO: 628
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-628

Query Match      60.9%; Score 39; DB 6; Length 442;
Best Local Similarity 72.7%; Pred. No. 50;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 ASRAKKOVER 11
Db      317 ASQAKQKVER 327

RESULT 14
US-10-453-372-630
; Sequence 630, Application US/10453372
; Publication No. US200600323A1
; GENERAL INFORMATION:
; APPLICANT: Alsebrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CursSeqList version 0.1
; SEQ ID NO: 630
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-630

Query Match      60.9%; Score 39; DB 6; Length 442;
Best Local Similarity 72.7%; Pred. No. 50;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 ASRAKKOVER 11
Db      317 ASQAKQKVER 327

RESULT 15
US-10-453-372-636
; Sequence 636, Application US/10453372
; Publication No. US200600323A1
; GENERAL INFORMATION:
; APPLICANT: Alsebrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CursSeqList version 0.1
; SEQ ID NO: 636
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-636

Query Match      60.9%; Score 39; DB 6; Length 442;
Best Local Similarity 72.7%; Pred. No. 50;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 ASRAKKOVER 11
Db      317 ASQAKQKVER 327

RESULT 16
US-10-877-346-19
; Sequence 19, Application US/10877346
; Publication No. US20060014153A1
; GENERAL INFORMATION:
; APPLICANT: Gerlach, Valerie L
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glenda
; APPLICANT: Miller, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Sillerman, Karen
; APPLICANT: Grose, William M
; APPLICANT: Grose, William M
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine B
; APPLICANT: Padigaru, Muraidhara
; APPLICANT: Kerkute, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shinkets, Richard A
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
```

PRIOR APPLICATION NUMBER: 60/235,631
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,633
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,808
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,064
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,065
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,066
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,135
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: 60/237,434
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/238,321
PRIOR FILING DATE: 2000-10-05
Remaining Prior Application data removed - See File Wrapper or PALM.
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 19
LENGTH: 442
TYPE: PRT
ORGANISM: Homo sapiens
US-10-877-346-19

Query Match 60.9%; Score 39; DB 6; Length 442;
Best Local Similarity 72.7%; Pred. No. 50;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Cy 1 ASREKKQVEK 11
||:||||:|
Db 317 ASREKKQVEK 327

RESULT 17
US-10-877-346-21
Sequence 21, Application US/10877346
Publication No. US2006001453A1
GENERAL INFORMATION:
APPLICANT: Gerlach, Valerie L
APPLICANT: MacDougall, John R
APPLICANT: Smithson, Glenda
APPLICANT: Millet, Isabelle
APPLICANT: Stone, David
APPLICANT: Gunther, Erik
APPLICANT: Ellerman, Karen
APPLICANT: Grose, William M
APPLICANT: Alsobrook II, John P
APPLICANT: Lepley, Denise M
APPLICANT: Burgess, Catherine E
APPLICANT: Padigaru, Muralidhara
APPLICANT: Kekuda, Ramesh
APPLICANT: Spytek, Kimberly A
APPLICANT: Leach, Martin D
APPLICANT: Shinkets, Richard A
TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-124
CURRENT APPLICATION NUMBER: US/10/877,346
PRIOR FILING DATE: 2004-06-25
PRIOR APPLICATION NUMBER: US/09/964,956
PRIOR FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 60/235,631
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,633
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,808
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,064
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,065
PRIOR FILING DATE: 2000-09-27

PRIOR APPLICATION NUMBER: 60/236,066
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,135
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: 60/237,434
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/238,321
PRIOR FILING DATE: 2000-10-05
Remaining Prior Application data removed - See File Wrapper or PALM.
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 21
LENGTH: 442
TYPE: PRT
ORGANISM: Homo sapiens
US-10-877-346-21

Query Match 60.9%; Score 39; DB 6; Length 442;
Best Local Similarity 72.7%; Pred. No. 50;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Cy 1 ASREKKQVEK 11
||:||||:|
Db 317 ASREKKQVEK 327

RESULT 18
US-10-877-346-23
Sequence 23, Application US/10877346
Publication No. US2006001453A1
GENERAL INFORMATION:
APPLICANT: Gerlach, Valerie L
APPLICANT: MacDougall, John R
APPLICANT: Smithson, Glenda
APPLICANT: Millet, Isabelle
APPLICANT: Stone, David
APPLICANT: Gunther, Erik
APPLICANT: Ellerman, Karen
APPLICANT: Grose, William M
APPLICANT: Alsobrook II, John P
APPLICANT: Lepley, Denise M
APPLICANT: Burgess, Catherine E
APPLICANT: Padigaru, Muralidhara
APPLICANT: Kekuda, Ramesh
APPLICANT: Spytek, Kimberly A
APPLICANT: Leach, Martin D
APPLICANT: Shinkets, Richard A
TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-124
CURRENT APPLICATION NUMBER: US/10/877,346
PRIOR FILING DATE: 2004-06-25
PRIOR APPLICATION NUMBER: US/09/964,956
PRIOR FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 60/235,631
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,633
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,808
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,064
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,065
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,066
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,135
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: 60/237,434
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/238,321
PRIOR FILING DATE: 2000-10-05
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 127

SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 23
LENGTH: 442
TYPE: PRT
ORGANISM: Homo sapiens
US-10-877-346-23

Query Match 60.9%; Score 39; DB 6; Length 442;
Best Local Similarity 72.7%; Pred. No. 50;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
Cy 1 ASREKKOYEV 11
Db 317 ASQAKOYEV 327

RESULT 19

US-10-877-346-55
Sequence 55, Application US/10877346
Publication No. US20060014153A1
GENERAL INFORMATION:
APPLICANT: Gerlach, Valerie L
APPLICANT: MacDougall, John R
APPLICANT: Smithson, Glenda
APPLICANT: Miller, Isabelle
APPLICANT: Stone, David
APPLICANT: Gunther, Erik
APPLICANT: Ellemann, Karen
APPLICANT: Grosse, William M
APPLICANT: Alsobrook II, John P
APPLICANT: Lepley, Denise M
APPLICANT: Burgess, Catherine E
APPLICANT: Padigaru, Muralidhara
APPLICANT: Kekuda, Ramesh
APPLICANT: Spytek, Kimberly A
APPLICANT: Leach, Martin D
APPLICANT: Shinkens, Richard A
TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-124
CURRENT FILING DATE: 2004-06-25
PRIOR FILING DATE: 2004-06-25
PRIOR APPLICATION NUMBER: US/09/964,956
PRIOR FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 60/235,631
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,633
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,808
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,064
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,065
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,066
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,135
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: 60/237,434
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/238,321
PRIOR FILING DATE: 2000-10-05
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 127
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 55
LENGTH: 442
TYPE: PRT
ORGANISM: Homo sapiens
US-10-877-346-55

Query Match 60.9%; Score 39; DB 6; Length 442;
Best Local Similarity 72.7%; Pred. No. 50;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Cy 1 ASREKKOYEV 11
Db 317 ASQAKOYEV 327

RESULT 20

US-10-877-346-56
Sequence 56, Application US/10877346
Publication No. US20060014153A1
GENERAL INFORMATION:
APPLICANT: Gerlach, Valerie L
APPLICANT: MacDougall, John R
APPLICANT: Smithson, Glenda
APPLICANT: Miller, Isabelle
APPLICANT: Stone, David
APPLICANT: Gunther, Erik
APPLICANT: Ellemann, Karen
APPLICANT: Grosse, William M
APPLICANT: Alsobrook II, John P
APPLICANT: Lepley, Denise M
APPLICANT: Burgess, Catherine E
APPLICANT: Padigaru, Muralidhara
APPLICANT: Kekuda, Ramesh
APPLICANT: Spytek, Kimberly A
APPLICANT: Leach, Martin D
APPLICANT: Shinkens, Richard A
TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-124
CURRENT FILING DATE: 2004-06-25
PRIOR FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: US/09/964,956
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,631
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,633
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,808
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,064
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,065
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,066
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,135
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: 60/237,434
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/238,321
PRIOR FILING DATE: 2000-10-05
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 127
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 56
LENGTH: 442
TYPE: PRT
ORGANISM: Homo sapiens
US-10-877-346-56

Query Match 60.9%; Score 39; DB 6; Length 442;
Best Local Similarity 72.7%; Pred. No. 50;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Cy 1 ASREKKOYEV 11
Db 317 ASQAKOYEV 327

RESULT 21

US-10-821-234-896
Sequence 896, Application US/10821234
Publication No. US2005025511A1

```
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821.234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pc_seq_genes Version 1.0
; SEQ ID NO 896
; LENGTH: 459
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-896
```

```
Query Match          60.9%; Score 39; DB 6; Length 459;
Best Local Similarity 72.7%; Pred. No. 52;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ASREAKQKVER 11
      ||:||||:|
Db      334 ASGEAKQKVER 344
```

```
RESULT 22
US-10-453-372-624
; Sequence 624, Application US/10453372
; Publication No. US20060003323A1
; GENERAL INFORMATION:
; APPLICANT: Alsbrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453.372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: Curaseq1ist version 0.1
; SEQ ID NO 624
; LENGTH: 468
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-624
```

```
Query Match          60.9%; Score 39; DB 6; Length 468;
Best Local Similarity 72.7%; Pred. No. 54;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ASREAKQKVER 11
      ||:||||:|
```

```
Db      322 ASGEAKQKVER 332
```

```
RESULT 23
US-10-453-372-622
; Sequence 622, Application US/10453372
; Publication No. US20060003323A1
; GENERAL INFORMATION:
; APPLICANT: Alsbrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453.372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: Curaseq1ist version 0.1
; SEQ ID NO 622
; LENGTH: 470
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-622
```

```
Query Match          60.9%; Score 39; DB 6; Length 470;
Best Local Similarity 72.7%; Pred. No. 54;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ASREAKQKVER 11
      ||:||||:|
Db      343 ASGEAKQKVER 353
```

```
RESULT 24
US-10-330-773-553
; Sequence 553, Application US/10330773
; Publication No. US20060040262A1
; GENERAL INFORMATION:
; APPLICANT: David W. Morris
; APPLICANT: Marc Malandro
; TITLE OF INVENTION: Novel Compositions and Methods in Cancer
; FILE REFERENCE: 529452001300
; CURRENT APPLICATION NUMBER: US/10/330.773
; CURRENT FILING DATE: 2002-12-27
; NUMBER OF SEQ ID NOS: 981
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 553
; LENGTH: 611
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-330-773-553
```

```
Query Match          60.9%; Score 39; DB 6; Length 611;
Best Local Similarity 50.0%; Pred. No. 73;
Matches 7; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
```


QY 1 ASREAKQOVEKA 14
|:|:|:|:|:
Db 386 ASKELSRQIEKALQ 399

RESULT 25
US-11-124-367A-444
; Sequence 444, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: Hongjin Huang
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CU001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124.367A
; PRIOR FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 444
; LENGTH: 2760
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-124-367A-444

Query Match 59.4%; Score 38; DB 7; Length 2760;
Best Local Similarity 58.3%; Pred. No. 6.1e+02;
Matches 7; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 ASREAKQOVEKA 12
|:|:|:|:|:
Db 148 ASRKAKRSIEEA 159

RESULT 26
US-11-124-367A-442
; Sequence 442, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: Hongjin Huang
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CU001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124.367A
; PRIOR FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 442
; LENGTH: 2803
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-124-367A-442

Query Match 59.4%; Score 38; DB 7; Length 2803;
Best Local Similarity 58.3%; Pred. No. 6.2e+02;
Matches 7; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 ASREAKQOVEKA 12
|:|:|:|:|:
Db 148 ASRKAKRSIEEA 159

Db 148 ASRKAKRSIEEA 159

RESULT 27
US-11-124-367A-445
; Sequence 445, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: Hongjin Huang
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CU001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124.367A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 445
; LENGTH: 2803
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-124-367A-445

Query Match 59.4%; Score 38; DB 7; Length 2803;
Best Local Similarity 58.3%; Pred. No. 6.2e+02;
Matches 7; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 ASREAKQOVEKA 12
|:|:|:|:|:
Db 148 ASRKAKRSIEEA 159

RESULT 28
US-11-124-367A-443
; Sequence 443, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: Hongjin Huang
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CU001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124.367A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 443
; LENGTH: 2984
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-124-367A-443

Query Match 59.4%; Score 38; DB 7; Length 2984;
Best Local Similarity 58.3%; Pred. No. 6.7e+02;
Matches 7; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 ASREAKQOVEKA 12
|:|:|:|:|:
Db 372 ASRKAKRSIEEA 383

```
RESULT 29
US-11-124-367A-441
; Sequence 441, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargi11
; APPLICANT: Hongjin Huang
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CU001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124,367A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 441
; LENGTH: 3027
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-124-367A-441

Query Match      59.4%; Score 38; DB 7; Length 3027;
Best Local Similarity 58.3%; Pred. No. 6.8e+02;
Matches 7; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Oy      1 ASREAKOVERKA 12
      |||:|:|:|:|
Db      372 ASRKAKSIEEA 383

RESULT 30
US-11-096-568A-24630
; Sequence 24630, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 24630
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(129)
; OTHER INFORMATION: Ceres Seq. ID no. 12436144
US-11-096-568A-24630

Query Match      57.8%; Score 37; DB 7; Length 129;
Best Local Similarity 72.7%; Pred. No. 25;
Matches 8; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Oy      3 REAKKOVERKAL 13
      |||:|:|:|:|
Db      89 REASEDVEKAL 99

RESULT 31
US-11-096-568A-24629
; Sequence 24629, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
```

```
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 24629
; LENGTH: 132
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(132)
; OTHER INFORMATION: Ceres Seq. ID no. 12436143
US-11-096-568A-24629

Query Match      57.8%; Score 37; DB 7; Length 132;
Best Local Similarity 72.7%; Pred. No. 26;
Matches 8; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Oy      3 REAKKOVERKAL 13
      |||:|:|:|:|
Db      92 REASEDVEKAL 102

RESULT 32
US-11-096-568A-24628
; Sequence 24628, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 24628
; LENGTH: 145
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(145)
; OTHER INFORMATION: Ceres Seq. ID no. 12436142
US-11-096-568A-24628

Query Match      57.8%; Score 37; DB 7; Length 145;
Best Local Similarity 72.7%; Pred. No. 29;
Matches 8; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Oy      3 REAKKOVERKAL 13
      |||:|:|:|:|
Db      105 REASEDVEKAL 115

RESULT 33
US-10-793-626-1186
; Sequence 1186, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PUS480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1186
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Artificial Sequence
```

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synthetic
OTHER INFORMATION: amino acid sequence
US-10-793-626-1186

Query Match 57.8%; Score 37; DB 6; Length 200;
Best Local Similarity 64.3%; Pred. No. 42;
Matches 9; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 1 ASRAKKQVEKAL 14
| | | | | | | | | | | | | | | | | | | | | |
Db 32 ASRAVKKKGSKGL 45

RESULT 34
US-10-793-626-2390
Sequence 2390, Application US/10793626
Publication No. US20050255478A1
GENERAL INFORMATION:
APPLICANT: KIMBERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
FILE REFERENCE: PU3480US
CURRENT APPLICATION NUMBER: US/10/793,626
CURRENT FILING DATE: 2004-03-04
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2390
LENGTH: 200
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-10-793-626-2390

Query Match 57.8%; Score 37; DB 6; Length 200;
Best Local Similarity 64.3%; Pred. No. 42;
Matches 9; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 1 ASRAKKQVEKAL 14
| | | | | | | | | | | | | | | | | | | | | |
Db 32 ASRAVKKKGSKGL 45

RESULT 35
US-11-087-099-11843
Sequence 11843, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B RP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 11843
LENGTH: 355
TYPE: PRT
ORGANISM: Thermoaerobacter tengcongensis
US-11-087-099-11843

Query Match 57.8%; Score 37; DB 7; Length 355;
Best Local Similarity 50.0%; Pred. No. 82;
Matches 7; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ASRAKKQVEKAL 14
| | | | | | | | | | | | | | | | | | | | | |
Db 313 AAQDIRKAVERALE 326

RESULT 36

US-11-096-568a-3496
Sequence 3496, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:

APPLICANT: Alexandrov, Nikolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 3496
LENGTH: 189
TYPE: PRT
ORGANISM: Glycine max

FEATURE:
NAME/KEY: misc feature
LOCATION: (1)-(189)
OTHER INFORMATION: Ceres Seq. ID no. 12610336
US-11-096-568a-3496

Query Match 56.2%; Score 36; DB 7; Length 189;
Best Local Similarity 63.6%; Pred. No. 57;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SRAKKQVEKA 12
| | | | | | | | | | | | | | | | | | | | | |
Db 172 ASRAKKQLEEA 182

RESULT 37
US-11-096-568a-3495
Sequence 3495, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nikolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 3495
LENGTH: 217
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)-(217)
OTHER INFORMATION: Ceres Seq. ID no. 12610335
US-11-096-568a-3495

Query Match 56.2%; Score 36; DB 7; Length 217;
Best Local Similarity 63.6%; Pred. No. 67;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SRAKKQVEKA 12
| | | | | | | | | | | | | | | | | | | | | |
Db 200 ASRAKKQLEEA 210

RESULT 38
US-11-096-568a-32889
Sequence 32889, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nikolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471

SEQ ID NO 32889
LENGTH: 269
TYPE: PRT
ORGANISM: Arabidopsis thaliana
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(269)
OTHER INFORMATION: Ceres Seq. ID no. 13601413
US-11-096-568A-32889

Query Match 56.2%; Score 36; DB 7; Length 269;
Best Local Similarity 70.0%; Pred. No. 86;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 4 EAKKOVERAL 13
DB 66 EAKKQMSKAI 75

RESULT 39
US-11-096-568A-32888
Sequence 32888, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nickolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 32888
LENGTH: 350
TYPE: PRT
ORGANISM: Arabidopsis thaliana
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(350)
OTHER INFORMATION: Ceres Seq. ID no. 13601412
US-11-096-568A-32888

Query Match 56.2%; Score 36; DB 7; Length 350;
Best Local Similarity 70.0%; Pred. No. 1.2e+02;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 4 EAKKOVERAL 13
DB 147 EAKKQMSKAI 156

RESULT 40
US-11-096-568A-32887
Sequence 32887, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nickolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 32887
LENGTH: 368
TYPE: PRT
ORGANISM: Arabidopsis thaliana
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(368)
OTHER INFORMATION: Ceres Seq. ID no. 13601411
US-11-096-568A-32887

Query Match 56.2%; Score 36; DB 7; Length 368;

Best Local Similarity 70.0%; Pred. No. 1.2e+02;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 4 EAKKOVERAL 13
DB 165 EAKKQMSKAI 174

RESULT 41
US-10-330-773-556
Sequence 556, Application US/10330773
Publication No. US20060040262A1
GENERAL INFORMATION:
APPLICANT: David W. Morris
TITLE OF INVENTION: Novel Compositions and Methods in Cancer
FILE REFERENCE: 529452001300
CURRENT APPLICATION NUMBER: US/10/330,773
CURRENT FILING DATE: 2002-12-27
NUMBER OF SEQ ID NOS: 981
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 556
LENGTH: 567
TYPE: PRT
ORGANISM: Homo sapiens
US-10-330-773-556

Query Match 56.2%; Score 36; DB 6; Length 567;
Best Local Similarity 42.9%; Pred. No. 2e+02;
Matches 6; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1 ASREAKKOVERAL 14
DB 342 ASRELSQIQRALQ 355

RESULT 42
US-10-330-773-558
Sequence 558, Application US/10330773
Publication No. US20060040262A1
GENERAL INFORMATION:
APPLICANT: David W. Morris
TITLE OF INVENTION: Novel Compositions and Methods in Cancer
FILE REFERENCE: 529452001300
CURRENT APPLICATION NUMBER: US/10/330,773
CURRENT FILING DATE: 2002-12-27
NUMBER OF SEQ ID NOS: 981
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 558
LENGTH: 582
TYPE: PRT
ORGANISM: Homo sapiens
US-10-330-773-558

Query Match 56.2%; Score 36; DB 6; Length 582;
Best Local Similarity 42.9%; Pred. No. 2.1e+02;
Matches 6; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1 ASREAKKOVERAL 14
DB 357 ASRELSQIQRALQ 370

RESULT 43
US-11-087-099-8319
Sequence 8319, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099

```

: CURRENT FILING DATE: 2005-03-22
: NUMBER OF SEQ ID NOS: 12464
: SEQ ID NO 8319
: LENGTH: 897
: TYPE: PRT
: ORGANISM: Bacillus anthracis str. A2012
: US-1-087-099-8319

```

Query Match	56.2%	Score 36;	DB 7;	Length 897;
Best Local Similarity	66.7%	Pred. No. 3.5e+02;		
Matches	8;	Conservative	1;	Mismatches 3;
			Indels	0;
			Gaps	0;

```
Qy      1 ASREAKQVEKA 12
          | ||||| :|
Db      839 ABEEAKKQEEA 850
```

```

RESULT 44
US-11-206-071-2
; Sequence 2, Application US/11206071
; Publication No. US20060039923A1
; GENERAL INFORMATION:
; APPLICANT: National Chung-Hsing University
; TITLE OF INVENTION: Vaccine for preventing and treating porcine progressive atrophid
; TITLE OF INVENTION: rhInflis
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/11/206, 071
; CURRENT FILING DATE: 2005-08-18
; PRIOR APPLICATION NUMBER: TW 93125156
; PRIOR FILING DATE: 2004-08-20
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 1285
; TYPE: PRT
; ORGANISM: Pasteurella multocida
US-11-206-071-2

```

```
QY      1 ASREAKKQVEKAL 13
        | | | : | | | |
Db      656 AFRELRTOLEKAL 668
```

```

RESULT 45
US-10-867-662-4
; Sequence 4, Application US/10867662
; Publication No. US20050281835A1
; GENERAL INFORMATION:
; APPLICANT: YANG, CHIOU-YING
; TITLE OF INVENTION: SURFACE PROTEIN OF NEISSERIA BACTERIA
; FILE REFERENCE: 3230-115
; CURRENT APPLICATION NUMBER: US/10/867,662
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 4
; LENGTH: 107
; TYPE: PR1
; ORGANISM: Neisseria meningitidis
US-10-867-662-4

```

Query Match	54.7%	Score 35;	DB 6;	Length 107;
Best Local Similarity	46.2%	Pred. No. 42;		
Matches	6;	Conservative	7;	Mismatches 0;
				Indels 0;
				Gaps 0

QY	2	SREAKKÖVEKALE	14
		: : : : : : :	
Db	18	SQEAQGEVKEAVQ	30

```

RESULT 46
US-10-867-662-2
; Sequence 2, Application US/10867662
; Publication No. US20050281835A1
; GENERAL INFORMATION:
; APPLICANT: YANG, CHIU-YING
; TITLE OF INVENTION: SURFACE PROTEIN OF NEISSERIA BACTERIARIA
; FILE REFERENCE: 3330-115
; CURRENT APPLICATION NUMBER: US/10/867,662
; CURRENT FILING DATE: 2004-06-16
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
; LENGTH: 114
; TYPE: PRP
; ORGANISM: Neisseria meningitidis
US-10-867-662-2

```

Query Match	54.7%	Score 35;	DB 6;	Length 114;
Best Local Similarity	46.2%	Pred. No. 46;		
Matches	6;	Conservative	7;	Mismatches 0;
			Indels	0;
			Gaps	0;

QY	2	SREAKQVEKALB	14
		: : : : : :	
Db	18	SQBAKQVEKAVQ	30

```

RESULT 47
US-10-867-662-6
; Sequence 6, Application US/10867662
; Publication No. US2005028185A1
; GENERAL INFORMATION:
; APPLICANT: YANG, CHIU-YING
; TITLE OF INVENTION: SURFACE PROTEIN OF NEISSERIA BACTERIA
; FILE REFERENCE: 3230-115
; CURRENT APPLICATION NUMBER: US/10/867,662
; CURRENT FILING DATE: 2004-06-16
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 6
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-10-867-662-6

```

Query Match	54.7%	Score 35;	DB 6;	Length 121;
Best Local Similarity	46.2%	Pred. No. 49;		
Matches 6;	Conservative 7;	Mismatches 0;	Indels 0;	Gaps 0

QY	2	SREAKKQVEKALE	14
		:: :: :: ::	
Db	18	SQEAKEVKEAVQ	30

```

RESULT 48
US-10-867-662-8
/ Sequence 8, Application US/10867662
/ Publication No. US20050281835A1
/ GENERAL INFORMATION:
/ APPLICANT: YANG, CHIU-YING
/ TITLE OF INVENTION: SURFACE PROTEIN OF NEISSERIA BACTERIA
/ FILE REFERENCE: 3230-115
/ CURRENT APPLICATION NUMBER: US/10/867,662
/ CURRENT FILING DATE: 2004-06-16
/ NUMBER OF SEQ ID NOS: 14
/ SOFTWARES: PatentIn Ver. 3.2
/ SEQ ID NO 8
/ LENGTH: 128
/ TYPE: PRT
/ ORGANISM: Neisseria meningitidis
US-10-867-662-8

```

Query Match 54.7%; Score 35; DB 6; Length 128;
 Best Local Similarity 46.2%; Pred. No. 52;
 Matches 6; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 2 SREAKQVEKLE 14
 |:||||:|:|:
 DB 18 SQEAKQVEKAVQ 30

RESULT 49

US-11-096-568A-8876
 ; Sequence 8876, Application US/11096568A
 ; Publication No. US20060048240A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Alexandrov, Nikolai et al.
 ; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
 ; FILE REFERENCE: 2750-1592PUS2
 ; CURRENT APPLICATION NUMBER: US/11/096,568A
 ; CURRENT FILING DATE: 2005-04-01
 ; NUMBER OF SEQ ID NOS: 34471
 ; SEQ ID NO 8876
 ; LENGTH: 161
 ; TYPE: PRT
 ; ORGANISM: Triticum aestivum
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (1)..(161)
 ; OTHER INFORMATION: Ceres Seq. ID no. 12615857
 US-11-096-568A-8876

Query Match 54.7%; Score 35; DB 7; Length 161;
 Best Local Similarity 58.3%; Pred. No. 68;
 Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 ASREAKQVEKA 12
 |:||||:|:
 DB 119 ATSEAKKEIGKA 130

RESULT 50
 US-11-096-568A-8875
 ; Sequence 8875, Application US/11096568A
 ; Publication No. US20060048240A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Alexandrov, Nikolai et al.
 ; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
 ; FILE REFERENCE: 2750-1592PUS2
 ; CURRENT APPLICATION NUMBER: US/11/096,568A
 ; CURRENT FILING DATE: 2005-04-01
 ; NUMBER OF SEQ ID NOS: 34471
 ; SEQ ID NO 8875
 ; LENGTH: 171
 ; TYPE: PRT
 ; ORGANISM: Triticum aestivum
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (1)..(171)
 ; OTHER INFORMATION: Ceres Seq. ID no. 12615856
 US-11-096-568A-8875

Query Match 54.7%; Score 35; DB 7; Length 171;
 Best Local Similarity 58.3%; Pred. No. 73;
 Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 ASREAKQVEKA 12
 |:||||:|:
 DB 129 ATSEAKKEIGKA 140

Search completed: March 28, 2006, 19:17:50
 Job time : 31 secs

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OM protein - protein search, using SW model

Run on: March 28, 2006, 18:59:45 ; Search time 24 Seconds
(without alignments)
35.639 Million cell updates/sec

Title: US-10-706-275a-2

Perfect score: 1 KOEDRYKASREAKQVEKALBQLEDKVK 29

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 174695 seqs, 29494374 residues

Total number of hits satisfying chosen parameters: 174695

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_AA_New:*
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2: /SIDS5/ptcodata/1/pubpaa/US06_NEW_PUB pep:*
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8: /SIDS5/ptcodata/1/pubpaa/US60_NEW_PUB pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	59	43.1	284	US-10-821-234-1632	Sequence 1632, Ap
2	57	41.6	183	US-11-072-512-3180	Sequence 3180, Ap
3	57	41.6	248	US-10-878-556A-175	Sequence 175, App
4	57	41.6	394	US-11-052-554A-79	Sequence 79, Appl
5	57	41.6	897	US-11-087-039-8319	Sequence 8319, Ap
6	57	41.6	1551	US-11-087-039-10366	Sequence 10366, A
7	57	41.6	2295	US-11-087-039-10366	Sequence 10366, A
8	55.5	40.5	861	US-11-096-568A-33917	Sequence 33917, A
9	55.5	40.5	881	US-11-096-568A-33916	Sequence 33916, A
10	55.5	40.5	1069	US-11-096-568A-33915	Sequence 33915, A
11	55.5	40.5	1081	US-11-142-700-29	Sequence 29, Appl
12	55	40.1	392	US-10-453-372-632	Sequence 632, App
13	55	40.1	392	US-10-453-372-634	Sequence 634, App
14	55	40.1	396	US-10-453-372-620	Sequence 620, App
15	55	40.1	442	US-10-453-372-618	Sequence 618, App
16	55	40.1	442	US-10-453-372-626	Sequence 626, App
17	55	40.1	442	US-10-453-372-628	Sequence 628, App
18	55	40.1	442	US-10-453-372-630	Sequence 630, App
19	55	40.1	442	US-10-453-372-636	Sequence 636, App
20	55	40.1	442	US-10-877-346-19	Sequence 19, Appl
21	55	40.1	442	US-10-877-346-21	Sequence 21, Appl
22	55	40.1	442	US-10-877-346-23	Sequence 23, Appl
23	55	40.1	442	US-10-877-346-25	Sequence 25, Appl
24	55	40.1	442	US-10-877-346-56	Sequence 56, Appl
25	55	40.1	459	US-10-821-234-896	Sequence 896, App

26	55	40.1	468	US-10-453-372-624	Sequence 624, App
27	55	40.1	470	US-10-453-372-622	Sequence 622, App
28	55	40.1	821	US-11-124-367A-473	Sequence 473, App
29	53.5	39.1	376	US-11-087-099-11305	Sequence 11305, A
30	53	38.7	364	US-10-984-376-5	Sequence 5, Appl
31	53	38.7	364	US-10-984-376-6	Sequence 6, Appl
32	53	38.7	452	US-11-087-099-2046	Sequence 2046, Ap
33	53	38.7	590	US-11-067-260-50	Sequence 50, Appl
34	53	38.7	593	US-11-067-260-30	Sequence 30, Appl
35	53	38.7	612	US-11-067-260-56	Sequence 56, Appl
36	53	38.7	645	US-11-067-260-44	Sequence 44, Appl
37	53	38.7	648	US-11-067-260-28	Sequence 28, Appl
38	53	38.7	751	US-11-067-260-40	Sequence 40, Appl
39	53	38.7	751	US-11-067-260-48	Sequence 48, Appl
40	53	38.7	765	US-11-067-260-54	Sequence 54, Appl
41	53	38.7	793	US-11-067-260-8	Sequence 8, Appl
42	53	38.7	806	US-11-067-260-38	Sequence 38, Appl
43	53	38.7	806	US-11-067-260-42	Sequence 42, Appl
44	53	38.7	858	US-11-067-260-14	Sequence 14, Appl
45	53	38.7	1389	US-11-067-260-52	Sequence 52, Appl

ALIGNMENTS

```

RESULT 1
US-10-821-234-1632
; Sequence 1632, Application US/10821234
; Publication No. US2005025511A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmant, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OR INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: PL_SEQ_genes Version 1.0
; SEQ ID NO 1632
; LENGTH: 284
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1632

Query Match      43.1% Score 59; DB 6; Length 284;
Best Local Similarity 41.4% Pred. No. 5.8;
Matches 12; Conservative 8; Mismatches 9; Indels 0; Gaps 0;

Cy      1 KOEDRYKASREAKQVEKALBQLEDKVK 29
Db      30 KOEDRCQDEBQALQKXKGTGDEVE 58

RESULT 2
US-11-072-512-3180
; Sequence 3180, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HTO, YURI
; APPLICANT: OTSUKA, KAORI
; APPLICANT: MAGAI, KEIICHI

```

```

APPLICANT: IRIE, RYOTARO
APPLICANT: TAMECHIKA, ICHINO
APPLICANT: SEKI, NAOHICO
APPLICANT: YOSHITAKA, ISUTOMU
APPLICANT: OTSUKA, MOTOTOKU
APPLICANT: NAGAHARI, KENJI
APPLICANT: MASUHO, YASUHIKO
TITLE OF INVENTION: Novel full length cDNA
FILE REFERENCE: 084335-0191
CURRENT APPLICATION NUMBER: US/11/072,512
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR FILING DATE: 2002-01-25
PRIOR APPLICATION NUMBER: JP 2001-379298
PRIOR FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 4096
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 183
LENGTH: 183
TYPE: PRT
ORGANISM: Homo sapiens
US-11-072-512-3180

```

Query Match	41.6%	Score 57;	DB 7;	Length 183;
Best Local Similarity	34.5%	Pred. No. 6;		
Matches	10;	Conservative	10;	Mismatches 9;
				Indels 0;
				Gaps 0;

Qy	1	KQADPKVAKSREAKKQVKEKALSOLEDDKRX	29
		: : : : : : : :	
Db	132	KEAEIRAFAPARSVAKLEKTIIDDDLEDDKIK	160

```

RESULT 3
US-10-878-556A-175
Sequence 175: Application US/10878556A
Publication No. US20050266399A1
GENERAL INFORMATION:
APPLICANT: Hoffmann La-Roche Inc.
TITLE OF INVENTION: HCV regulated protein expression
FILE REFERENCE: 21762
CURRENT APPLICATION NUMBER: US/10/878,556A
CURRENT FILING DATE: 2004-06-28
NUMBER OF SEQ ID NOS: 199
SOFTWARE: PatentIn version 3.1
SEQ ID NO 175
LENGTH: 248
TYPE: PRT
ORGANISM: Homo sapiens
PUBLICATION INFORMATION:
DATABASE ACCESSION NUMBER: humanpgp/chri-aah15403
DATABASE ENTRY DATE: 2003-04-22
US-10-878-556A-175

```

	Query Match	41.6%	Score 57;	DB 6;	Length 248;
	Best Local Similarity	34.5%;	Pred. No. 8.4;		
Matches	10;	Conservative	10;	Mismatches	9; Indels 0; Gaps 0.
Oy	1 KQADPKVAKSRKKQVKLEQLDLDKYK	29	::::: :-		
b	. 197 KEATRAEFARSVAKLKTIDDLDDJDKL	225	::::: :		

RESULT 4
US-11-052-554A-79
Sequence 79, Application US/11052554A
Publication No. US20050288866A1
GENERAL INFORMATION:
APPLICANT: Sachdev, et al.
TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE
TITLE OF INVENTION: PROTEINS OF THERAPEUTIC POTENTIAL
FILE REFERENCE: 30853/40359A
CURRENT APPLICATION NUMBER: US/11/052,554A
CURRENT FILING DATE: 2005-02-07

? PRIOR APPLICATION NUMBER: US 60/589,227
 ? PRIOR FILING DATE: 2004-07-20
 ? PRIOR APPLICATION NUMBER: IN 173/DEL/2004-
 ? PRIOR FILING DATE: 2004-02-06
 ? NUMBER OF SEQ ID NOS: 763
 ? SOFTWARE: PatentIn version 3.3
 ? SEQ ID NO 79
 ? LENGTH: 394
 ? TYPE: PRT
 ? ORGANISM: Escherichia coli O157:H7
 ? US-11-052-554A-79

Query Match	41.6%	Score 57;	DB 7;	Length 394;
Best Local Similarity	48.3%	Pred. No. 14;		
Matches 14;	Conservative 5;	Mismatches 10;	Indels 0;	Gaps 0;

QY	1	KQ	A	D	R	K	T	A	S	R	E	A	K	K	O	V	E	K	A	L	E	S	E	D	E	K		29
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:			
DB	104	KQ	E	K	E	R	L	A	O	B	O	K	O	A	S	R	E	A	K	K	O	B	E	L	T	O	K	132

```

RESULT 5
US-11-087-099-8319
; Sequence 8319, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450) B EP
; CURRENT APPLICATION NUMBER: US/11/087, 099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 8319
; LENGTH: 897
; TYPE: PRT
; ORGANISM: Bacillus anthracis str. A2012
US-11-087-099-8319

```

Query Match	41.6%	Score 57;	DB 7;	Length 897;
Best Local Similarity	41.9%	Pred. No. 35/		
Matches	13;	Conservative	9;	Mismatches 7; Indels 2; Gaps 1;
Qy	1	KQAEEDKV-KASREAKQVETKALEQLEDKVK	29	
Db	829	KQAEERAKKAEERAKQGEERAKQKAEERAK	859	

```

RESULT 6
US-11-087-099-10366
; Sequence 10366, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087, 099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 10366
; LENGTH: 1551
; TYPE: prt
; ORGANISM: Neurospora crassa
US-11-087-099-10366

```

Query Match 41.6%; Score 57; DB 7; Length 1551;
Best Local Similarity 51.5%; Pred. No. 66;
Matches 17; Conservative 3; Mismatches 9; Indels 4; Gaps 2

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RESULT 7
US-11-087-099-5450
; Sequence 5450, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 5450
; LENGTH: 2295
; TYPE: PRT
; ORGANISM: Neurospora crassa
US-11-087-099-5450

Query Match      41.6%; Score 57; DB 7; Length 2295;
Best Local Similarity 37.9%; Pred. No. 1e+02;
Matches 11; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

Cy      1 KQAEQKVASREAKKQVEKALEQLEDDKYK 29
Db      1694 RKAEEAKKAAEEVKKKAEARQAEQEK 1722

RESULT 8
US-11-096-568A-33917
; Sequence 33917, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 33917
; LENGTH: 861
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(861)
; OTHER INFORMATION: Ceres Seq. ID no. 13604540
US-11-096-568A-33917

Query Match      40.5%; Score 55.5; DB 7; Length 861;
Best Local Similarity 52.0%; Pred. No. 50;
Matches 13; Conservative 4; Mismatches 7; Indels 1; Gaps 1;

Cy      5 DKVASREAKKQVEKALEQLEDDKYK 29
Db      461 DKKKGNREASKQIH-ALENIEEGTK 484

RESULT 9
US-11-096-568A-33916
; Sequence 33916, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 33916
; LENGTH: 881
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
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; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(881)
; OTHER INFORMATION: Ceres Seq. ID no. 13604539
US-11-096-568A-33916

Query Match      40.5%; Score 55.5; DB 7; Length 881;
Best Local Similarity 52.0%; Pred. No. 52;
Matches 13; Conservative 4; Mismatches 7; Indels 1; Gaps 1;

Cy      5 DKVASREAKKQVEKALEQLEDDKYK 29
Db      481 DKKKGNREASKQIH-ALENIEEGTK 504

RESULT 10
US-11-096-568A-33915
; Sequence 33915, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 33915
; LENGTH: 1069
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(1069)
; OTHER INFORMATION: Ceres Seq. ID no. 13604538
US-11-096-568A-33915

Query Match      40.5%; Score 55.5; DB 7; Length 1069;
Best Local Similarity 52.0%; Pred. No. 64;
Matches 13; Conservative 4; Mismatches 7; Indels 1; Gaps 1;

Cy      5 DKVASREAKKQVEKALEQLEDDKYK 29
Db      669 DKKKGNREASKQIH-ALENIEEGTK 692

RESULT 11
US-11-142-700-29
; Sequence 29, Application US/11142700
; Publication No. US20060026721A1
; GENERAL INFORMATION:
; APPLICANT: Stephen M. Allen
; APPLICANT: Gary M. Fader
; APPLICANT: Saverio Carl Falco
; APPLICANT: Anthony J. Kinney
; APPLICANT: Jonathan E. Lightner
; APPLICANT: Guo-Hua Miao
; APPLICANT: J. Antoni Rafalski
; APPLICANT: Catherine J. Thorpe
; TITLE OF INVENTION: Plant Cellulose Synthases
; FILE REFERENCE: BB-1170
; CURRENT APPLICATION NUMBER: US/11/142,700
; CURRENT FILING DATE: 2005-06-01
; PRIOR APPLICATION NUMBER: US/09/720,383
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/092,844
; PRIOR FILING DATE: 1998-07-14
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 29
; LENGTH: 1081
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
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US-11-142-700-29

Query Match 40.5%; Score 55.5; DB 7; Length 1081;
Best Local Similarity 54.2%; Pred. No. 65;
Matches 13; Conservative 4; Mismatches 6; Indels 1; Gaps 1;

Qy 3 AEDKVASREAKKQVEKALEQLEDK 26
Db 678 AADKKKKRREASKQIH-ALENIER 700

RESULT 12

US-10-453-372-632
Sequence 632, Application US/10453372
Publication No. US2006000323A1
GENERAL INFORMATION:
APPLICANT: Alabrook, et al.
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
FILE REFERENCE: 21402-589 A
CURRENT FILING DATE: 2003-06-03
PRIOR APPLICATION NUMBER: 09/789390
PRIOR FILING DATE: 2001-02-23
PRIOR APPLICATION NUMBER: 60/185967
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 09/823187
PRIOR FILING DATE: 2001-03-29
PRIOR APPLICATION NUMBER: 60/195792
PRIOR FILING DATE: 2000-03-10
PRIOR APPLICATION NUMBER: 09/839446
PRIOR FILING DATE: 2001-03-19
PRIOR APPLICATION NUMBER: 60/199476
PRIOR FILING DATE: 2000-03-25
PRIOR APPLICATION NUMBER: 09/863776
PRIOR FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: 60/208263
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: 09/939398
PRIOR FILING DATE: 2001-08-24
PRIOR APPLICATION NUMBER: 60/227800
PRIOR FILING DATE: 2000-08-25
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 1609
SOFTWARE: CuroSeqList version 0.1
SEQ ID NO 632
LENGTH: 392
TYPE: PRT
ORGANISM: Homo sapiens
US-10-453-372-632

Query Match 40.1%; Score 55; DB 6; Length 392;
Best Local Similarity 39.3%; Pred. No. 24;
Matches 11; Conservative 10; Mismatches 7; Indels 0; Gaps 0;

Qy 2 QABDKVASREAKKQVEKALEQLEDK 29
Db 260 EAQGLRASAQKAKQVEKKAQARBAKIQ 287

RESULT 13

US-10-453-372-634
Sequence 634, Application US/10453372
Publication No. US2006000323A1
GENERAL INFORMATION:
APPLICANT: Alabrook, et al.
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
FILE REFERENCE: 21402-589 A
CURRENT FILING DATE: 2003-06-03
PRIOR APPLICATION NUMBER: 09/789390
PRIOR FILING DATE: 2001-02-23
PRIOR APPLICATION NUMBER: 60/185967
PRIOR FILING DATE: 2000-03-01

PRIOR APPLICATION NUMBER: 09/823187
PRIOR FILING DATE: 2001-03-29
PRIOR APPLICATION NUMBER: 60/195792
PRIOR FILING DATE: 2000-03-10
PRIOR APPLICATION NUMBER: 09/839446
PRIOR FILING DATE: 2001-03-19
PRIOR APPLICATION NUMBER: 60/199476
PRIOR FILING DATE: 2000-03-25
PRIOR APPLICATION NUMBER: 09/863776
PRIOR FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: 60/208263
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: 09/939398
PRIOR FILING DATE: 2001-08-24
PRIOR APPLICATION NUMBER: 60/227800
PRIOR FILING DATE: 2000-08-25
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 1609
SOFTWARE: CuroSeqList version 0.1
SEQ ID NO 634
LENGTH: 392
TYPE: PRT
ORGANISM: Homo sapiens
US-10-453-372-634

Query Match 40.1%; Score 55; DB 6; Length 392;
Best Local Similarity 39.3%; Pred. No. 24;
Matches 11; Conservative 10; Mismatches 7; Indels 0; Gaps 0;

Qy 2 QABDKVASREAKKQVEKALEQLEDK 29
Db 260 EAQGLRASAQKAKQVEKKAQARBAKIQ 287

RESULT 14

US-10-453-372-620
Sequence 620, Application US/10453372
Publication No. US2006000323A1
GENERAL INFORMATION:
APPLICANT: Alabrook, et al.
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
FILE REFERENCE: 21402-589 A
CURRENT FILING DATE: 2003-06-03
PRIOR APPLICATION NUMBER: 09/789390
PRIOR FILING DATE: 2001-02-23
PRIOR APPLICATION NUMBER: 60/185967
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 09/823187
PRIOR FILING DATE: 2001-03-29
PRIOR APPLICATION NUMBER: 60/195792
PRIOR FILING DATE: 2000-03-10
PRIOR APPLICATION NUMBER: 09/839446
PRIOR FILING DATE: 2001-03-19
PRIOR APPLICATION NUMBER: 60/199476
PRIOR FILING DATE: 2000-03-25
PRIOR APPLICATION NUMBER: 09/863776
PRIOR FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: 60/208263
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: 09/939398
PRIOR FILING DATE: 2001-08-24
PRIOR APPLICATION NUMBER: 60/227800
PRIOR FILING DATE: 2000-08-25
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 1609
SOFTWARE: CuroSeqList version 0.1
SEQ ID NO 620
LENGTH: 396
TYPE: PRT
ORGANISM: Homo sapiens
US-10-453-372-620

Query Match 40.1%; Score 55; DB 6; Length 396;
Best Local Similarity 39.3%; Pred. No. 24;
Matches 11; Conservative 10; Mismatches 7; Indels 0; Gaps 0;

QY 2 QABDKVKSREAKQVEKALEQLEDPKVK 29
DB 262 EAQOGLRASQEKQKVEKKAQAREAKLQ 289

RESULT 15

US-10-453-372-618
; Sequence 618, Application US/10453372
; Publication No. US2006003323A1
; GENERAL INFORMATION:
; APPLICANT: Alisobrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
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; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CuraseqList version 0.1
; SEQ ID NO 618
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-618

Query Match 40.1%; Score 55; DB 6; Length 442;
Best Local Similarity 39.3%; Pred. No. 27;
Matches 11; Conservative 10; Mismatches 7; Indels 0; Gaps 0;

QY 2 QABDKVKSREAKQVEKALEQLEDPKVK 29
DB 310 EAQOGLRASQEKQKVEKKAQAREAKLQ 337

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Job time : 24 secs

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OM protein - protein search, using sw model

Run on: March 28, 2006, 18:48:09 ; Search time 575 Seconds

(without alignments)
69.699 Million cell updates/sec

Title: US-10-706-275A-2
Perfect score: 137
Sequence: 1 KQAEKVKYASREAKQYKALQLEDKVK 29

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 7861189 seqs, 1381955077 residues

Total number of hits satisfying chosen parameters: 7861189

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	137	100.0	29	37 US-10-706-275-2	Sequence 2, Appl1
2	137	100.0	29	37 US-10-706-275-15	Sequence 15, Appl1
3	125	91.2	28	37 US-10-706-275-12	Sequence 12, Appl1
4	119	86.9	28	37 US-10-706-275-13	Sequence 13, Appl1
5	112	81.8	28	37 US-10-706-275-14	Sequence 14, Appl1
6	110	80.3	28	37 US-10-706-275-11	Sequence 11, Appl1
7	96	70.1	28	37 US-10-706-275-10	Sequence 10, Appl1
8	81	59.1	28	37 US-10-706-275-9	Sequence 9, Appl1
9	72.5	52.9	587	27 US-09-791-537-33198	Sequence 33198, A
10	72	52.6	280	9 US-07-958-322A-3	Sequence 3, Appl1
11	72	52.6	346	6 US-07-685-928-1	Sequence 1, Appl1
12	72	52.6	440	23 US-09-302-756-35	Sequence 35, Appl1
13	72	52.6	443	38 US-10-866-202-6	Sequence 6, Appl1
14	72	52.6	483	32 US-10-233-074-2	Sequence 2, Appl1
15	72	52.6	484	1 PCT-US04-24868-122	Sequence 122, App
16	72	52.6	484	27 US-09-791-537-10358	Sequence 10358, A
17	72	52.6	484	34 US-10-415-182A-9206	Sequence 9206, Ap
18	72	52.6	484	35 US-10-548-463-237	Sequence 237, App
19	72	52.6	553	34 US-10-474-792-672	Sequence 672, App
20	72	52.6	558	37 US-10-732-923-3295	Sequence 3295, Ap
21	71	51.8	254	31 US-10-141-627-4	Sequence 4, Appl1
22	71	51.8	284	31 US-10-141-627-6	Sequence 6, Appl1
23	71	51.8	389	1 PCT-US05-18192-23	Sequence 23, Appl1
24	71	51.8	539	27 US-09-791-537-124523	Sequence 124523, A
25	67	48.9	389	1 PCT-US02-09107B-67145	Sequence 67145, A
26	67	48.9	389	32 US-10-282-122A-67145	Sequence 67145, A
27	65	48.2	1365	27 US-09-791-537-125966	Sequence 125966, A
28	65.5	47.8	28	37 US-10-706-275-8	Sequence 8, Appl1
29	64	46.7	14	37 US-10-706-275-1	Sequence 1, Appl1
30	64	46.7	20	19 US-08-944-147-22	Sequence 22, Appl1
31	64	46.7	20	19 US-08-944-147-22	Sequence 22, Appl1
32	64	46.7	20	30 US-10-044-034-22	Sequence 22, Appl1
33	64	46.7	20	37 US-10-706-275-5	Sequence 5, Appl1
34	64	46.7	361	36 US-10-603-114-5390	Sequence 5390, Ap
35	63	46.0	107	11 US-08-160-117A-92	Sequence 92, Appl1
36	63	46.0	107	11 US-08-178-212-92	Sequence 92, Appl1
37	63	46.0	107	12 US-08-261-661-92	Sequence 92, Appl1
38	63	46.0	107	16 US-08-647-905-92	Sequence 92, Appl1
39	63	46.0	107	20 US-09-049-304A-92	Sequence 92, Appl1
40	63	46.0	107	23 US-09-381-485-92	Sequence 92, Appl1
41	63	46.0	107	30 US-10-023-066A-92	Sequence 92, Appl1
42	63	46.0	107	30 US-10-023-066A-92	Sequence 92, Appl1
43	63	46.0	107	38 US-10-804-678-92	Sequence 92, Appl1
44	63	46.0	174	50 US-60-655-875-143573	Sequence 143573, A
45	62	45.3	28	37 US-10-706-275-6	Sequence 6, Appl1

ALIGNMENTS

RESULT 1
US-10-706-275-2
; Sequence 2, Application US/10706275
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec

APPLICANT: The Council of the Queensland Institute of Medical Research
APPLICANT: Lowell, George H.
APPLICANT: Burt, David S.
APPLICANT: White, Gregory L.
APPLICANT: Good, Michael F.
APPLICANT: Batzloff, Michael R.
APPLICANT: Leanderson, Tomas B.
TITLE OF INVENTION: Vaccine
FILE REFERENCE: 021989-000710US
CURRENT FILING DATE: 2003-11-13
PRIOR APPLICATION NUMBER: US/10/706,275
PRIOR FILING DATE: 2002-11-15
PRIOR APPLICATION NUMBER: AU 2002302132
PRIOR FILING DATE: 2002-11-15
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn version 3.1
SEQ ID NO 2
LENGTH: 29
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: antigenic peptide derivative of S. pyogenes with flanking sequence
US-10-706-275-2

Query Match 100.0%; Score 137; DB 37; Length 29;
Best Local Similarity 100.0%; Pred. No. 2.3e-07;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KOAEDKVKASREAKKQVEKALJQLEDDKVK 29
Db 1 KOAEDKVKASREAKKQVEKALJQLEDDKVK 29

RESULT 2
US-10-706-275-15
Sequence 15, Application US/10706275
GENERAL INFORMATION:
APPLICANT: ID Biomedical Corporation of Quebec
APPLICANT: The Council of the Queensland Institute of Medical Research
APPLICANT: Lowell, George H.
APPLICANT: Burt, David S.
APPLICANT: White, Gregory L.
APPLICANT: Good, Michael F.
APPLICANT: Batzloff, Michael R.
APPLICANT: Leanderson, Tomas B.
TITLE OF INVENTION: Vaccine
FILE REFERENCE: 021989-000710US
CURRENT APPLICATION NUMBER: US/10/706,275
CURRENT FILING DATE: 2003-11-13
PRIOR APPLICATION NUMBER: US 60/426,409
PRIOR FILING DATE: 2002-11-15
PRIOR APPLICATION NUMBER: AU 2002302132
PRIOR FILING DATE: 2002-11-15
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn version 3.1
SEQ ID NO 15
LENGTH: 29
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-15

Query Match 100.0%; Score 137; DB 37; Length 29;
Best Local Similarity 100.0%; Pred. No. 2.3e-07;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KOAEDKVKASREAKKQVEKALJQLEDDKVK 29
Db 1 KOAEDKVKASREAKKQVEKALJQLEDDKVK 29

RESULT 3
US-10-706-275-12
Sequence 12, Application US/10706275
GENERAL INFORMATION:
APPLICANT: ID Biomedical Corporation of Quebec
APPLICANT: The Council of the Queensland Institute of Medical Research
APPLICANT: Lowell, George H.
APPLICANT: Burt, David S.
APPLICANT: White, Gregory L.
APPLICANT: Good, Michael F.
APPLICANT: Batzloff, Michael R.
APPLICANT: Leanderson, Tomas B.
TITLE OF INVENTION: Vaccine
FILE REFERENCE: 021989-000710US
CURRENT APPLICATION NUMBER: US/10/706,275
CURRENT FILING DATE: 2003-11-13
PRIOR APPLICATION NUMBER: US 60/426,409
PRIOR FILING DATE: 2002-11-15
PRIOR APPLICATION NUMBER: AU 2002302132
PRIOR FILING DATE: 2002-11-15
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn version 3.1
SEQ ID NO 12
LENGTH: 28
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-12

Query Match 91.2%; Score 125; DB 37; Length 28;
Best Local Similarity 92.9%; Pred. No. 4.3e-06;
Matches 26; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KOAEDKVKASREAKKQVEKALJQLEDDKVK 28
Db 1 KOAEDKVKASREAKKQVEKALJQLEDDKVK 28

RESULT 4
US-10-706-275-13
Sequence 13, Application US/10706275
GENERAL INFORMATION:
APPLICANT: ID Biomedical Corporation of Quebec
APPLICANT: The Council of the Queensland Institute of Medical Research
APPLICANT: Lowell, George H.
APPLICANT: Burt, David S.
APPLICANT: White, Gregory L.
APPLICANT: Good, Michael F.
APPLICANT: Batzloff, Michael R.
APPLICANT: Leanderson, Tomas B.
TITLE OF INVENTION: Vaccine
FILE REFERENCE: 021989-000710US
CURRENT APPLICATION NUMBER: US/10/706,275
CURRENT FILING DATE: 2003-11-13
PRIOR APPLICATION NUMBER: US 60/426,409
PRIOR FILING DATE: 2002-11-15
PRIOR APPLICATION NUMBER: AU 2002302132
PRIOR FILING DATE: 2002-11-15
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn version 3.1
SEQ ID NO 13
LENGTH: 28
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-13

Query Match 86.9%; Score 119; DB 37; Length 28;
Best Local Similarity 89.3%; Pred. No. 1.9e-05;
Matches 25; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

LENGTH: 28
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-9

Query Match 59.1%; Score 81; DB 37; Length 28;
Best Local Similarity 68.0%; Pred. No. 0.24;
Matches 17; Conservative 4; Mismatches 0; Gaps 0;

OY 1 KOAEDKVASREAKKQVEKALEJOLEKV 25
DB 4 KOAEDDLASREAKKQVODKVKQLE 28

RESULT 9
US-09-791-537-33198
Sequence 33198, Application US/09791537
GENERAL INFORMATION:
APPLICANT: Biomomix, Inc.
APPLICANT: Debe, Derek
APPLICANT: Danzer, Joseph
TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBERS
TITLE OF INVENTION: METHODS OF USE THEREOF
FILE REFERENCE: 261/210
CURRENT APPLICATION NUMBER: US/09/791,537
CURRENT FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 153055
SOFTWARE: PatentIn version 3.0
SEQ ID NO 33198
LENGTH: 587
TYPE: PRT
ORGANISM: Streptococcus sp
US-09-791-537-33198

Query Match 52.9%; Score 72.5; DB 27; Length 587;
Best Local Similarity 46.3%; Pred. No. 30;
Matches 19; Conservative 3; Mismatches 6; Indels 13; Gaps 1;

OY 1 KOAEDK-----VVASREAKKQVEKALEJOLEKV 28
DB 417 KYKEDKQISDASRQGLRDLASREAKKQVEKALEJANSKL 457

RESULT 10
US-07-958-322A-3
Sequence 3, Application US/07958322A
GENERAL INFORMATION:
APPLICANT: Bjorck, Lars
APPLICANT: Schmidt, Karl-Hermann
APPLICANT: Akesson, Per
APPLICANT: Cooney, Jakti
TITLE OF INVENTION: Igc-Binding Protein
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSER: Birch, Stewart, Kolasch & Birch
STREET: P.O. Box 747
CITY: Falls Church
STATE: Virginia
COUNTRY: USA
ZIP: 22040-0747
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/958,322A
FILING DATE: 21-DEC-1992
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Svensson, Leonard R.

REGISTRATION NUMBER: 30330
REFERENCE/DOCKET NUMBER: 552-104PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-241-1300
TELEFAX: 703-241-2648
TELEX: 248345

INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 280 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-958-322A-3

Query Match 52.6%; Score 72; DB 9; Length 280;
Best Local Similarity 45.2%; Pred. No. 18;
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;

OY 5 DKVK-----ASREAKKQVEKALEJOLEKV 28
DB 109 DKVBERQISDASRQRLRDLASREAKKQVEKALEJANSKL 150

RESULT 11
US-07-685-928-1
Sequence 1, Application US/07685928
GENERAL INFORMATION:
APPLICANT: Fischetti, Vincent
TITLE OF INVENTION: Viral Amplicon For The Generation Of
TITLE OF INVENTION: Antigenic Variability
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESSER: Wyatt, Gerber, Burke and Badie
STREET: 645 Madison Avenue
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10022

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/685,928
FILING DATE: 19910412
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Burke
REGISTRATION NUMBER: 18,975
REFERENCE/DOCKET NUMBER: 18364
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 826-0171
TELEFAX: (212) 755-6256

INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 346 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: C-terminal
FEATURE:
NAME/KEY: Protein
LOCATION: 1..346
US-07-685-928-1

Query Match 52.6%; Score 72; DB 6; Length 346;
Best Local Similarity 45.2%; Pred. No. 21;
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;

QY 5 DKVK-----ASREAKQVEKALEQLEEDRV 28
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Db 61 DKVKEKQISDASRQGLRRDLDSREAKQVEKALEANSKL 102
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RESULT 12
US-09-302-756-35
; Sequence 35, Application US/09302756
; GENERAL INFORMATION:
; APPLICANT: FISCHETTI, Vincent A.
; APPLICANT: POZZI, Gianni
; APPLICANT: SCHNEEWIND, Olaf
; TITLE OF INVENTION: DELIVERY AND EXPRESSION OF A HYBRID SURFACE PROTEIN ON
; TITLE OF INVENTION: THE SURFACE OF GRAM POSITIVE BACTERIA
; FILE REFERENCE: 016921-076
; CURRENT APPLICATION NUMBER: US/09/302,756
; EARLIER FILING DATE: 1995-03-07 US/522,440
; EARLIER APPLICATION NUMBER: US 07/522,440
; EARLIER FILING DATE: 1990-05-11
; EARLIER APPLICATION NUMBER: US 07/742,199
; EARLIER FILING DATE: 1991-08-05
; EARLIER APPLICATION NUMBER: US 07/814,823
; EARLIER FILING DATE: 1991-12-23
; EARLIER APPLICATION NUMBER: US 07/851,082
; EARLIER FILING DATE: 1992-03-13
; EARLIER APPLICATION NUMBER: PCT/US93/02355
; EARLIER FILING DATE: 1993-03-12
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 35
; LENGTH: 440
; TYPE: PRT
; ORGANISM: S. pyogenes
US-09-302-756-35
Query Match 52.6%; Score 72; DB 23; Length 440;
Best Local Similarity 45.2%; Pred. No. 26;
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;
QY 5 DKVK-----ASREAKQVEKALEQLEEDRV 28
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Db 270 DKVKEKQISDASRQGLRRDLDSREAKQVEKALEANSKL 311
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RESULT 13
US-10-866-202-6
; Sequence 6, Application US/10866202
; GENERAL INFORMATION:
; APPLICANT: Bjorck, Lars
; APPLICANT: Stobring, Ulf
; TITLE OF INVENTION: PROTEIN L AND HYBRID PROTEINS THEREOF
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Seed IP Law Group
; STREET: 701 Fifth Avenue Suite 6300
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/866,202
; FILING DATE: 10-Jun-2004
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/325,278
; FILING DATE: 26-Oct-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Potter, Jane E. R.

; REGISTRATION NUMBER: 33,332
; REFERENCE/DOCKET NUMBER: 100084.402
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 443 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-10-866-202-6
Query Match 52.6%; Score 72; DB 38; Length 443;
Best Local Similarity 45.2%; Pred. No. 27;
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;
QY 5 DKVK-----ASREAKQVEKALEQLEEDRV 28
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Db 272 DKVKEKQISDASRQGLRRDLDSREAKQVEKALEANSKL 313
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RESULT 14
US-10-233-074-2
; Sequence 2, Application US/10233074
; GENERAL INFORMATION:
; APPLICANT: Patricia Ryan
; APPLICANT: Vijaykumar Pancholi
; APPLICANT: Vincent A. Fischetti
; TITLE OF INVENTION: BINDING OF STREPTOCOCCAL M PROTEIN TO
; TITLE OF INVENTION: SILIC ACID
; FILE REFERENCE: 7529/11015U91
; CURRENT APPLICATION NUMBER: US/10/233,074
; CURRENT FILING DATE: 2002-08-30
; PRIOR APPLICATION NUMBER: US 60/317,371
; PRIOR FILING DATE: 2001-09-04
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 483
; TYPE: PRT
; ORGANISM: Streptococcus pyogenes
US-10-233-074-2
Query Match 52.6%; Score 72; DB 32; Length 483;
Best Local Similarity 45.2%; Pred. No. 29;
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;
QY 5 DKVK-----ASREAKQVEKALEQLEEDRV 28
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Db 312 DKVKEKQISDASRQGLRRDLDSREAKQVEKALEANSKL 353
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RESULT 15
PCT-US04-24868-122
; Sequence 122, Application PC/TUS0424868
; GENERAL INFORMATION:
; APPLICANT: Chiron Corporation
; TITLE OF INVENTION: Immunogenic Compositions for Streptococcus pyogenes
; FILE REFERENCE: P20663.003 (002441.00094)
; CURRENT APPLICATION NUMBER: PCT/US04/24868
; CURRENT FILING DATE: 2004-07-30
; PRIOR APPLICATION NUMBER: US 60/491822
; PRIOR FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US 60/541565
; PRIOR FILING DATE: 2004-02-03
; NUMBER OF SEQ ID NOS: 135
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 484
; TYPE: PRT
; ORGANISM: Streptococcus pyogenes

GenCore version 5.1.7
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OM protein - protein search, using bw model

Run on: March 28, 2006, 18:58:50 ; Search time 166 Seconds
(without alignments)
72.994 Million cell updates/sec

Title: US-10-706-275A-2
Perfect score: 137
Sequence: 1 KQAEKVKASREAKQVEKALBQLEDKVK 29

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_MA_Main.*
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBSCOMB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBSCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBSCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBSCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBSCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	137	100.0	29	US-10-706-275-2	Sequence 2, Appl1
2	137	100.0	29	US-10-706-275-15	Sequence 15, Appl1
3	125	91.2	28	US-10-706-275-12	Sequence 12, Appl1
4	119	86.9	28	US-10-706-275-13	Sequence 13, Appl1
5	112	81.8	28	US-10-706-275-14	Sequence 14, Appl1
6	110	80.3	28	US-10-706-275-11	Sequence 11, Appl1
7	96	70.1	28	US-10-706-275-10	Sequence 10, Appl1
8	81	59.1	28	US-10-706-275-9	Sequence 9, Appl1
9	72	52.6	443	US-08-325-278-6	Sequence 6, Appl1
10	72	52.6	553	US-10-474-792-672	Sequence 672, Appl1
11	72	52.6	558	US-10-733-923-3295	Sequence 3295, Appl1
12	71	51.8	254	US-10-141-627-4	Sequence 4, Appl1
13	71	51.8	284	US-10-141-627-6	Sequence 6, Appl1
14	67	48.9	389	US-10-282-122A-67145	Sequence 67145, A
15	65.5	47.8	28	US-10-706-275-8	Sequence 8, Appl1
16	64	46.7	14	US-10-706-275-1	Sequence 1, Appl1
17	64	46.7	20	US-10-044-034-22	Sequence 22, Appl1
18	64	46.7	20	US-10-706-275-5	Sequence 5, Appl1
19	63	46.0	107	US-10-023-066A-92	Sequence 92, Appl1
20	63	46.0	107	US-10-804-678-92	Sequence 92, Appl1
21	62	45.3	28	US-10-706-275-6	Sequence 6, Appl1
22	62	45.3	77	US-10-023-066A-75	Sequence 75, Appl1
23	62	45.3	77	US-10-804-678-75	Sequence 75, Appl1
24	61	44.5	28	US-10-023-066A-58	Sequence 58, Appl1
25	61	44.5	28	US-10-804-678-58	Sequence 58, Appl1
26	61	44.5	37	US-10-023-066A-85	Sequence 85, Appl1
27	61	44.5	37	US-10-023-066A-86	Sequence 86, Appl1

28	61	44.5	37	5	US-10-804-678-85	Sequence 85, Appl1
29	61	44.5	37	5	US-10-804-678-86	Sequence 86, Appl1
30	61	44.5	56	4	US-10-023-066A-77	Sequence 77, Appl1
31	61	44.5	56	5	US-10-804-678-77	Sequence 77, Appl1
32	61	44.5	145	4	US-10-437-963-146357	Sequence 146357, Appl1
33	61	44.5	145	4	US-10-437-963-146368	Sequence 146368, Appl1
34	60	43.8	35	4	US-10-023-066A-62	Sequence 62, Appl1
35	60	43.8	35	5	US-10-804-678-62	Sequence 62, Appl1
36	60	43.8	42	4	US-10-023-066A-34	Sequence 34, Appl1
37	60	43.8	42	5	US-10-804-678-34	Sequence 34, Appl1
38	60	43.8	49	4	US-10-023-066A-30	Sequence 30, Appl1
39	60	43.8	49	4	US-10-023-066A-32	Sequence 32, Appl1
40	60	43.8	49	4	US-10-023-066A-54	Sequence 54, Appl1
41	60	43.8	49	5	US-10-804-678-30	Sequence 30, Appl1
42	60	43.8	49	5	US-10-804-678-32	Sequence 32, Appl1
43	60	43.8	49	5	US-10-804-678-54	Sequence 54, Appl1
44	60	43.8	56	4	US-10-023-066A-79	Sequence 79, Appl1
45	60	43.8	56	5	US-10-804-678-79	Sequence 79, Appl1

ALIGNMENTS

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RESULT 1
US-10-706-275-2
; Sequence 2, Application US/10706275
; Publication No. US20050002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael F.
; APPLICANT: Batzloff, Michael R.
; APPLICANT: Leanderson, Tomas B.
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; PRIOR FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURES:
; OTHER INFORMATION: antigenic peptide derivative of S. pyogenes with flanking sequence
; OTHER INFORMATION: es
US-10-706-275-2
Query Match 100.0%; Score 137; DB 5; Length 29;
Best Local Similarity 100.0%; Pred. No. 8.3e-09;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Cy 1 KQAEKVKASREAKQVEKALBQLEDKVK 29
Db 1 KQAEKVKASREAKQVEKALBQLEDKVK 29
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RESULT 2
US-10-706-275-15
; Sequence 15, Application US/10706275
; Publication No. US20050002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.

```

APPLICANT: White, Gregory L.
APPLICANT: Good, Michael F.
APPLICANT: Batzloff, Michael R.
APPLICANT: Leanderson, Tomas B.
TITLE OF INVENTION: Vaccine
FILE REFERENCE: 021989-000710US
CURRENT FILING DATE: 2003-11-13
PRIOR FILING DATE: 2002-11-15
PRIOR APPLICATION NUMBER: US 60/426,409
PRIOR FILING DATE: 2002-11-15
PRIOR APPLICATION NUMBER: AU 2002302132
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin version 3.1
SEQ ID NO 15
LENGTH: 29
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-15

Query Match 100.0%; Score 137; DB 5; Length 29;
Best Local Similarity 100.0%; Pred. No. 8.3e-09;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QABDKVKSREAKKQVEKALEQLEDKVK 29
DB 1 QABDKVKSREAKKQVEKALEQLEDKVK 29

RESULT 3
US-10-706-275-12
Sequence 12, Application US/10706275
Publication No. US2005002956A1
GENERAL INFORMATION:
APPLICANT: ID Biomedical Corporation of Quebec
APPLICANT: The Council of the Queensland Institute of Medical Research
APPLICANT: Lowell, George H.
APPLICANT: Burt, David S.
APPLICANT: White, Gregory L.
APPLICANT: Good, Michael F.
APPLICANT: Batzloff, Michael R.
APPLICANT: Leanderson, Tomas B.
TITLE OF INVENTION: Vaccine
FILE REFERENCE: 021989-000710US
CURRENT FILING DATE: 2003-11-13
PRIOR FILING DATE: 2002-11-15
PRIOR APPLICATION NUMBER: US 60/426,409
PRIOR FILING DATE: 2002-11-15
PRIOR APPLICATION NUMBER: AU 2002302132
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin version 3.1
SEQ ID NO 12
LENGTH: 28
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-12

Query Match 91.2%; Score 125; DB 5; Length 28;
Best Local Similarity 92.9%; Pred. No. 1.8e-07;
Matches 26; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 QABDKVKSREAKKQVEKALEQLEDKVK 28
DB 1 QABDKVKSREAKKQVEKALEQLEDKVK 28

RESULT 4
US-10-706-275-13

Sequence 13, Application US/10706275
Publication No. US2005002956A1
GENERAL INFORMATION:
APPLICANT: ID Biomedical Corporation of Quebec
APPLICANT: The Council of the Queensland Institute of Medical Research
APPLICANT: Lowell, George H.
APPLICANT: Burt, David S.
APPLICANT: White, Gregory L.
APPLICANT: Good, Michael F.
APPLICANT: Batzloff, Michael R.
APPLICANT: Leanderson, Tomas B.
TITLE OF INVENTION: Vaccine
FILE REFERENCE: 021989-000710US
CURRENT FILING DATE: 2003-11-13
PRIOR FILING DATE: 2002-11-15
PRIOR APPLICATION NUMBER: US 60/426,409
PRIOR FILING DATE: 2002-11-15
PRIOR APPLICATION NUMBER: AU 2002302132
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin version 3.1
SEQ ID NO 13
LENGTH: 28
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-13

Query Match 86.9%; Score 119; DB 5; Length 28;
Best Local Similarity 89.3%; Pred. No. 8.8e-07;
Matches 25; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 QABDKVKSREAKKQVEKALEQLEDKVK 29
DB 1 QABDKVKSREAKKQVEKALEQLEDKVK 28

RESULT 5
US-10-706-275-14
Sequence 14, Application US/10706275
Publication No. US2005002956A1
GENERAL INFORMATION:
APPLICANT: ID Biomedical Corporation of Quebec
APPLICANT: The Council of the Queensland Institute of Medical Research
APPLICANT: Lowell, George H.
APPLICANT: Burt, David S.
APPLICANT: White, Gregory L.
APPLICANT: Good, Michael F.
APPLICANT: Batzloff, Michael R.
APPLICANT: Leanderson, Tomas B.
TITLE OF INVENTION: Vaccine
FILE REFERENCE: 021989-000710US
CURRENT FILING DATE: 2003-11-13
PRIOR FILING DATE: 2002-11-15
PRIOR APPLICATION NUMBER: US 60/426,409
PRIOR FILING DATE: 2002-11-15
PRIOR APPLICATION NUMBER: AU 2002302132
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin version 3.1
SEQ ID NO 14
LENGTH: 28
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-14

Query Match 81.8%; Score 112; DB 5; Length 28;
Best Local Similarity 88.9%; Pred. No. 5.5e-06;
Matches 24; Conservative 1; Mismatches 2; Indels 0; Gaps 0;


```
Qy 3 AEDKVKASREAKQVEKALEQLEBDK 29
Db 1 AEDKVKQLREAKQVEKALEQLEBDK 27

RESULT 6
US-10-706-275-11
; Sequence 11, Application US/10706275
; Publication No. US2005002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael F.
; APPLICANT: Batzloff, Michael R.
; APPLICANT: Leanderson, Tomas B.
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; PRIOR FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 11
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-11

Query Match 80.3%; Score 110; DB 5; Length 28;
Best Local Similarity 85.2%; Pred. No. 9.3e-06;
Matches 23; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KOAEDKVKASREAKQVEKALEQLEBDK 27
Db 2 KOAEDKVDASREAKQVEKQVKQLEDK 28

RESULT 7
US-10-706-275-10
; Sequence 10, Application US/10706275
; Publication No. US2005002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael F.
; APPLICANT: Batzloff, Michael R.
; APPLICANT: Leanderson, Tomas B.
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; PRIOR FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 10
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: antigenic peptide sequence derivative of p145 base

Qy 1 KOAEDKVKASREAKQVEKALEQLEBDK 27
Db 2 KOAEDKVDASREAKQVEKQVKQLEDK 28

RESULT 9
US-08-325-278-6
; Sequence 6, Application US/08325278
; Publication No. US20030027283A1
; GENERAL INFORMATION:
; APPLICANT: Bjvreck, Lars
; APPLICANT: Sjvdring, Ulf
; TITLE OF INVENTION: PROTEIN L AND HYBRID PROTEINS THEREOF
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSER: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30

; OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-10

Query Match 70.1%; Score 96; DB 5; Length 28;
Best Local Similarity 76.9%; Pred. No. 0.00036;
Matches 20; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 KOAEDKVKASREAKQVEKALEQLEBDK 26
Db 3 KOAEDKVDASREAKQVEKQVKQLEBDK 28

RESULT 8
US-10-706-275-9
; Sequence 9, Application US/10706275
; Publication No. US2005002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael F.
; APPLICANT: Batzloff, Michael R.
; APPLICANT: Leanderson, Tomas B.
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; PRIOR FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 9
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-9

Query Match 59.1%; Score 81; DB 5; Length 28;
Best Local Similarity 68.0%; Pred. No. 0.018;
Matches 17; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 1 KOAEDKVKASREAKQVEKALEQLEBDK 25
Db 4 KOAEDDLDASREAKQVEKQVKQLEBDK 28

RESULT 9
US-08-325-278-6
; Sequence 6, Application US/08325278
; Publication No. US20030027283A1
; GENERAL INFORMATION:
; APPLICANT: Bjvreck, Lars
; APPLICANT: Sjvdring, Ulf
; TITLE OF INVENTION: PROTEIN L AND HYBRID PROTEINS THEREOF
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSER: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
```

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/325,278
FILING DATE: 26-OCT-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: McMaisters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 450023,401
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 443 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-325-278-6

Query Match 52.6%; Score 72; DB 2; Length 443;
Best Local Similarity 45.2%; Pred. No. 3.6;
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;

Qy 5 DKVK-----ASREAKQVKKALEQLEDKV 28
Db 272 DKVKEKQISDASRQGLRRDLASREAKQVKKALEEANSKL 313

RESULT 10
US-10-474-792-672
Sequence 672, Application US/10474792
Publication No. US20040236072A1
GENERAL INFORMATION:
APPLICANT: Olmedo, Stephen
APPLICANT: Zagursky, Robert
APPLICANT: Nickbarg, Elliot
APPLICANT: Winter, Louie
TITLE OF INVENTION: SURFACE PROTEINS OF STREPTOCOCCUS PYOGENES
FILE REFERENCE: AM 100399
CURRENT APPLICATION NUMBER: US/10/474,792
CURRENT FILING DATE: 2003-10-14
NUMBER OF SEQ ID NOS: 674
SOFTWARE: PatentIn version 3.0
SEQ ID NO 672
LENGTH: 553
TYPE: PRT
ORGANISM: Streptococcus pyogenes
US-10-474-792-672

Query Match 52.6%; Score 72; DB 5; Length 553;
Best Local Similarity 45.2%; Pred. No. 4.6;
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;

Qy 5 DKVK-----ASREAKQVKKALEQLEDKV 28
Db 382 DKVKEKQISDASRQGLRRDLASREAKQVKKALEEANSKL 423

RESULT 11
US-10-732-923-3295
Sequence 3295, Application US/10732923
Publication No. US20050108791A1
GENERAL INFORMATION:
APPLICANT: Edgerton, Michael D
TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
FILE REFERENCE: 38-15(52796)C
CURRENT APPLICATION NUMBER: US/10/732,923
CURRENT FILING DATE: 2003-12-10
PRIORITY APPLICATION NUMBER: 10/310,154
PRIORITY FILING DATE: 2002-12-04
NUMBER OF SEQ ID NOS: 24149
SEQ ID NO 3295
LENGTH: 558

TYPE: PRT
ORGANISM: Streptococcus pyogenes
US-10-732-923-3295

Query Match 52.6%; Score 72; DB 5; Length 558;
Best Local Similarity 50.0%; Pred. No. 4.6;
Matches 18; Conservative 3; Mismatches 7; Indels 8; Gaps 1;

Qy 1 KQAE-----KVASREAKQVKKALEQLEDKV 28
Db 393 KQSDASRQGLRRDLASREAKQVKKALEEANSKL 428

RESULT 12
US-10-141-627-4
Sequence 4, Application US/10141627
Publication No. US20020176863A1
GENERAL INFORMATION:
APPLICANT: Dale, James B.
TITLE OF INVENTION: ANTIGEN OF HYBRID M PROTEIN AND CARRIER
FILE REFERENCE: 481112.404C3
CURRENT APPLICATION NUMBER: US/10/141,627
CURRENT FILING DATE: 2002-05-07
NUMBER OF SEQ ID NOS: 19
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 254
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: An antigen of M5 and a carrier of the
OTHER INFORMATION: COOH-terminal portion of M5
US-10-141-627-4

Query Match 51.8%; Score 71; DB 4; Length 254;
Best Local Similarity 75.0%; Pred. No. 2.6;
Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 9 ASREAKQVKKALEQLEDKV 28
Db 105 ASREAKQVKKALEEANSKL 124

RESULT 13
US-10-141-627-6
Sequence 6, Application US/10141627
Publication No. US20020176863A1
GENERAL INFORMATION:
APPLICANT: Dale, James B.
TITLE OF INVENTION: ANTIGEN OF HYBRID M PROTEIN AND CARRIER
FILE REFERENCE: 481112.404C3
CURRENT APPLICATION NUMBER: US/10/141,627
CURRENT FILING DATE: 2002-05-07
NUMBER OF SEQ ID NOS: 19
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6
LENGTH: 284
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: An antigen of three fragments of M5 and a carrier
OTHER INFORMATION: of the COOH-terminal portion of M5
US-10-141-627-6

Query Match 51.8%; Score 71; DB 4; Length 284;
Best Local Similarity 75.0%; Pred. No. 2.5;
Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 9 ASREAKQVKKALEQLEDKV 28
Db 135 ASREAKQVKKALEEANSKL 154

RESULT 14

US-10-282-122A-67145
 ; Sequence 67145, Application US/10282122A
 ; Publication No. US20040029129A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wang, Liangsu
 ; APPLICANT: Zamudio, Carlos
 ; APPLICANT: Malone, Cheryl
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Ohlsen, Karl
 ; APPLICANT: Zyckind, Judith
 ; APPLICANT: Wall, Daniel
 ; APPLICANT: Trawick, John
 ; APPLICANT: Carr, Grant
 ; APPLICANT: Yamamoto, Robert
 ; APPLICANT: Forsyth, R.
 ; APPLICANT: Xu, H.
 ; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
 ; FILE REFERENCE: EITRA.034A
 ; CURRENT APPLICATION NUMBER: US/10/282,122A
 ; CURRENT FILING DATE: 2003-02-20
 ; PRIOR APPLICATION NUMBER: 60/191,078
 ; PRIOR FILING DATE: 2000-03-21
 ; PRIOR APPLICATION NUMBER: 60/206,848
 ; PRIOR FILING DATE: 2000-05-23
 ; PRIOR APPLICATION NUMBER: 60/207,727
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: 60/230,335
 ; PRIOR FILING DATE: 2000-09-06
 ; PRIOR APPLICATION NUMBER: 60/230,347
 ; PRIOR FILING DATE: 2000-09-09
 ; PRIOR APPLICATION NUMBER: 60/242,578
 ; PRIOR FILING DATE: 2000-10-23
 ; PRIOR APPLICATION NUMBER: 60/253,625
 ; PRIOR FILING DATE: 2000-11-27
 ; PRIOR APPLICATION NUMBER: 60/257,931
 ; PRIOR FILING DATE: 2000-12-22
 ; PRIOR APPLICATION NUMBER: 60/267,636
 ; PRIOR FILING DATE: 2001-02-09
 ; PRIOR APPLICATION NUMBER: 60/269,308
 ; PRIOR FILING DATE: 2001-02-16
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 78614
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 67145
 ; LENGTH: 389
 ; TYPE: PRT
 ; ORGANISM: Pasteurella multocida
 US-10-282-122A-67145

Query Match 48.9%; Score 67; DB 4; Length 389;
 Best Local Similarity 51.6%; Pred. No. 12;
 Matches 16; Conservative 5; Mismatches 8; Indels 2; Gaps 1;

Qy 1 KOAED--KVKSRAKKQVEKALBQLBQDKVK 29
 Db 175 KOAEBEAKAKAEKAKAEKAKAEKAKAK 205

RESULT 15

US-10-706-275-8
 ; Sequence 8, Application US/10706275
 ; Publication No. US2005002956A1
 ; GENERAL INFORMATION:
 ; APPLICANT: ID Biomedical Corporation of Quebec
 ; APPLICANT: The Council of the Queensland Institute of Medical Research
 ; APPLICANT: Lowell, George H.
 ; APPLICANT: Burt, David S.
 ; APPLICANT: White, Gregory L.
 ; APPLICANT: Good, Michael F.
 ; APPLICANT: Batzloff, Michael R.

; APPLICANT: Leanderson, Tomas B.
 ; TITLE OF INVENTION: Vaccine
 ; FILE REFERENCE: 021989-000710US
 ; CURRENT APPLICATION NUMBER: US/10/706,275
 ; CURRENT FILING DATE: 2003-11-13
 ; PRIOR APPLICATION NUMBER: US 60/426,409
 ; PRIOR FILING DATE: 2002-11-15
 ; PRIOR APPLICATION NUMBER: AU 2002302132
 ; PRIOR FILING DATE: 2002-11-15
 ; NUMBER OF SEQ ID NOS: 15
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 8
 ; LENGTH: 28
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
 US-10-706-275-8

Query Match 47.8%; Score 65.5; DB 5; Length 28;
 Best Local Similarity 58.6%; Pred. No. 1.1;
 Matches 17; Conservative 2; Mismatches 3; Indels 7; Gaps 1;

Qy 1 KOAEDKVKSRAKKQVEKALBQLBQDKVK 29
 Db 5 KOAERDIDASRAKK-----QLQDKVK 26

Search completed: March 28, 2006, 19:02:22
 Job time : 166 secs

GenCore version 5.1.7
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OM protein - protein search, using SW model

Run on: March 28, 2006, 18:47:44 ; Search time 46 Seconds
(without alignments)
52.122 Million cell updates/sec

Title: US-10-706-275A-2

Perfect score: 137
Sequence: 1 KQADKYKASREAKQVEKALEQEDKVK 29

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*
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3: /cgn2_6/ptodata/1/1aa/H_COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/PCTUS_COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/RB_COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	110	80.3	28	US-08-817-811-18	Sequence 18, Appl
2	96	70.1	28	US-08-817-811-17	Sequence 17, Appl
3	81	59.1	28	US-08-817-811-16	Sequence 16, Appl
4	78	56.9	28	US-08-817-811-67	Sequence 67, Appl
5	72	52.6	440	US-08-302-756B-35	Sequence 35, Appl
6	72	52.6	443	US-08-795-475-6	Sequence 6, Appl
7	72	52.6	443	US-08-325-278B-6	Sequence 6, Appl
8	71	51.8	28	US-08-817-811-12	Sequence 12, Appl
9	71	51.8	236	US-08-937-271-11	Sequence 11, Appl
10	71	51.8	254	US-08-914-479A-4	Sequence 4, Appl
11	71	51.8	284	US-08-914-479A-6	Sequence 6, Appl
12	71	51.8	305	US-08-937-271-10	Sequence 10, Appl
13	68.5	50.0	28	US-08-817-811-66	Sequence 66, Appl
14	67	48.9	29	US-08-817-811-52	Sequence 52, Appl
15	65.5	47.8	28	US-08-817-811-15	Sequence 15, Appl
16	65	47.4	29	US-08-817-811-74	Sequence 74, Appl
17	64	46.7	20	US-08-817-811-1	Sequence 1, Appl
18	64	46.7	29	US-08-817-811-73	Sequence 73, Appl
19	64	46.7	72	US-08-182-175A-87	Sequence 87, Appl
20	64	46.7	72	PCT-US92-06412-87	Sequence 87, Appl
21	64	46.7	361	US-09-543-681A-5390	Sequence 5390, Ap
22	63	46.0	29	US-08-817-811-79	Sequence 79, Appl
23	63	46.0	107	US-08-182-175A-105	Sequence 105, App
24	63	46.0	107	US-08-474-633A-92	Sequence 92, Appl
25	63	46.0	107	US-08-823-771-92	Sequence 92, Appl
26	63	46.0	107	PCT-US92-06412-105	Sequence 105, App
27	62	45.3	28	US-08-817-811-13	Sequence 13, Appl

28	62	45.3	29	2	US-08-817-811-78	Sequence 78, Appl
29	62	45.3	77	1	US-08-182-175A-57	Sequence 57, Appl
30	62	45.3	77	1	US-08-474-633A-75	Sequence 75, Appl
31	62	45.3	77	2	US-08-823-771-75	Sequence 75, Appl
32	62	45.3	77	4	PCT-US92-06412-57	Sequence 57, Appl
33	61	44.5	28	1	US-08-182-175A-49	Sequence 49, Appl
34	61	44.5	28	1	US-08-474-633A-58	Sequence 58, Appl
35	61	44.5	28	2	US-08-823-771-58	Sequence 58, Appl
36	61	44.5	28	4	PCT-US92-06412-49	Sequence 49, Appl
37	61	44.5	29	2	US-08-817-811-71	Sequence 71, Appl
38	61	44.5	29	2	US-08-817-811-72	Sequence 72, Appl
39	61	44.5	29	2	US-08-817-811-75	Sequence 75, Appl
40	61	44.5	29	2	US-08-817-811-89	Sequence 89, Appl
41	61	44.5	37	1	US-08-182-175A-85	Sequence 85, Appl
42	61	44.5	37	1	US-08-182-175A-97	Sequence 97, Appl
43	61	44.5	37	1	US-08-474-633A-85	Sequence 85, Appl
44	61	44.5	37	1	US-08-474-633A-86	Sequence 86, Appl
45	61	44.5	37	2	US-08-823-771-85	Sequence 85, Appl

ALIGNMENTS

RESULT 1
US-08-817-811-18
Sequence 18, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.
APPLICANT: Relf, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allan J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
TITLE OF INVENTION: COMPRISING SAME
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESSES:
ADDRESSER: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817,811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FBRC:005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-817-811-18
Query Match 80.3%; Score 110; DB 2; Length 28;
Best Local Similarity 85.2%; Pred. No. 1.8e-06;
Matches 23; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KOAEDKYKASREAKQYKALJOLEDK 27
Db 2 KOAEDKYKASREAKQYKQVKQJOLEDK 28

RESULT 2

US-08-817-811-17
Sequence 17, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.
APPLICANT: Reif, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allan J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
TITLE OF INVENTION: COMPRISING SAME
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817,811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FBRC:005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-817-811-17

Query Match 70.1%; Score 96; DB 2; Length 28;
Best Local Similarity 76.9%; Pred. No. 7.5e-05;
Matches 20; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 KOAEDKYKASREAKQYKALJOLEDK 26
Db 3 KOAEDKLDASREAKQYKQVKQJOLEDK 28

RESULT 3

US-08-817-811-16
Sequence 16, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.
APPLICANT: Reif, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allan J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
TITLE OF INVENTION: COMPRISING SAME
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESS:

ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817,811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FBRC:005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-817-811-16

Query Match 59.1%; Score 81; DB 2; Length 28;
Best Local Similarity 68.0%; Pred. No. 0.004;
Matches 17; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 1 KOAEDKYKASREAKQYKALJOLEDK 25
Db 4 KOAEDDLDASREAKQYKQVKQJOLEDK 28

RESULT 4

US-08-817-811-67
Sequence 67, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.
APPLICANT: Reif, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allan J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
TITLE OF INVENTION: COMPRISING SAME
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817,811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-APR-1996

```

; ATTORNEY/AGENT INFORMATION:
; NAME: Highlander, Steven L.
; REGISTRATION NUMBER: 37,642
; REFERENCE/DOCKET NUMBER: PRC:005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512/418-3000
; TELEFAX: 512/474-7577
; INFORMATION FOR SEQ ID NO: 67:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 amino acids
; TYPE: amino acid
; STRANDEDNESS: linear
; TOPOLOGY: linear
; US-08-817-811-67

Query Match          56.9%; Score 78; DB 2; Length 28;
Best Local Similarity 64.0%; Pred. No. 0.0089;
Matches 16; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

Qy      1 KQAEKVKASREAKKQVEKALEQLE 25
Db      4 KQAEKDDASREAKKQLODKVKQLE 28

RESULT 5
US-08-302-756B-35
; Sequence 35, Application US/08302756E
; Patent No. 6737521
; GENERAL INFORMATION:
; APPLICANT: FISCHETTI, Vincent A.
; APPLICANT: POZZI, Gianni
; APPLICANT: SCHNEEWIND, Olaf
; TITLE OF INVENTION: DELIVERY AND EXPRESSION OF A HYBRID SURFACE PROTEIN ON
; FILE REFERENCE: 016921-076
; CURRENT APPLICATION NUMBER: US/08/302,756E
; CURRENT FILING DATE: 1995-03-07
; PRIOR APPLICATION NUMBER: US 07/522,440
; PRIOR FILING DATE: 1990-05-11
; PRIOR APPLICATION NUMBER: US 07/742,199
; PRIOR FILING DATE: 1991-08-05
; PRIOR APPLICATION NUMBER: US 07/814,823
; PRIOR FILING DATE: 1991-12-23
; PRIOR APPLICATION NUMBER: US 07/851,082
; PRIOR FILING DATE: 1992-03-13
; PRIOR APPLICATION NUMBER: PCT/US93/02355
; PRIOR FILING DATE: 1993-03-12
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 35
; LENGTH: 440
; TYPE: PRT
; ORGANISM: S. pyogenes
; US-08-302-756B-35

Query Match          52.6%; Score 72; DB 2; Length 440;
Best Local Similarity 45.2%; Pred. No. 0.74;
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;

Qy      5 DKVK-----ASREAKKQVEKALEQLE 28
Db      270 DKVKEKQISDASRQGLRDLDSREAKKQVEKALEANSK 311

RESULT 6
US-08-795-475-6
; Sequence 6, Application US/08795475
; Patent No. 5965390
; GENERAL INFORMATION:
; APPLICANT: Bjorck, Lars
; APPLICANT: Sjobring, Ulf
; TITLE OF INVENTION: PROTEIN L AND HYBRID PROTEINS THEREOF
; NUMBER OF SEQUENCES: 14
```

```

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/795,475
; FILING DATE: 11-FEB-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Mcmasters, David D.
; REGISTRATION NUMBER: 33,963
; REFERENCE/DOCKET NUMBER: 100084.402D1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 443 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-795-475-6

Query Match          52.6%; Score 72; DB 1; Length 443;
Best Local Similarity 45.2%; Pred. No. 0.74;
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;

Qy      5 DKVK-----ASREAKKQVEKALEQLE 28
Db      272 DKVKEKQISDASRQRLRDLDSREAKKQVEKALEANSK 313

RESULT 7
US-08-325-278B-6
; Sequence 6, Application US/08325278B
; Patent No. 6822075
; GENERAL INFORMATION:
; APPLICANT: Bjorck, Lars
; TITLE OF INVENTION: PROTEIN L AND HYBRID PROTEINS THEREOF
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Seed IP Law Group
; STREET: 701 Fifth Avenue Suite 6300
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/325,278B
; FILING DATE: 26-OCT-1994
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Potter, Jane B. R.
; REGISTRATION NUMBER: 33,332
; REFERENCE/DOCKET NUMBER: 100084.402
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 6:
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SEQUENCE CHARACTERISTICS:
LENGTH: 443 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-08-325-278B-6

Query Match 52.6%; Score 72; DB 2; Length 443;
Best Local Similarity 45.2%; Pred. No. 0.74;
Matches 19; Conservative 2; Mismatches 3; Indels 18; Gaps 1;

QY 5 DKVK-----ASREAKQVEKALEQLEDKV 28
DB 272 DKVKEKQISDASRQRLRLDLDASREAKQVEKALEANSKL 313

RESULT 8
US-08-817-811-12
Sequence 12, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.
APPLICANT: Reif, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allan J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
TITLE OF INVENTION: COMPRISING SAME
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817,811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FIRC.005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-817-811-12

Query Match 51.8%; Score 71; DB 2; Length 28;
Best Local Similarity 55.6%; Pred. No. 0.057;
Matches 15; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

QY 1 KQADKVKASREAKQVEKALEQLEDK 27
DB 2 KQLEDKVKQLEDKVKQLEDKVKQLEDK 28

RESULT 9

US-08-937-271-11
Sequence 11, Application US/08937271
Patent No. 6063386
GENERAL INFORMATION:
APPLICANT: Dale, James B.
APPLICANT: Lederer, James W.
TITLE OF INVENTION: RECOMBINANT MULTIVALENT M PROTEIN
TITLE OF INVENTION: VACCINE
NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/937,271
FILING DATE: 15-SEP-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Roseman, Stephen J.
REGISTRATION NUMBER: 43,058
REFERENCE/DOCKET NUMBER: 481112.405C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 236 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-937-271-11

Query Match 51.8%; Score 71; DB 2; Length 236;
Best Local Similarity 75.0%; Pred. No. 0.51;
Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 9 ASREAKQVEKALEQLEDKV 28
DB 87 ASREAKQVEKALEANSKL 106

RESULT 10
US-08-914-479A-4
Sequence 4, Application US/08914479A
Patent No. 6419932
GENERAL INFORMATION:
APPLICANT: Dale, James B.
TITLE OF INVENTION: ANTIGEN OF HYBRID M PROTEIN AND CARRIER
TITLE OF INVENTION: FOR GROUP A STREPTOCOCCAL VACCINE
FILE REFERENCE: 481112.404C2
CURRENT APPLICATION NUMBER: US/08/914,479A
CURRENT FILING DATE: 1997-08-19
PRIOR APPLICATION NUMBER: 08/409,270
PRIOR FILING DATE: 1995-03-23
PRIOR APPLICATION NUMBER: 07/945,860
PRIOR FILING DATE: 1992-09-16
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 254
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: An antigen of M5 and a carrier of the
OTHER INFORMATION: COOH-terminal portion of M5

US-08-914-479A-4

Query Match 51.8%; Score 71; DB 2; Length 254;
Best Local Similarity 75.0%; Pred. No. 0.55;
Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 9 ASREAKQVEKALEBQLEBDKV 28
|||||:|:
Db 105 ASREAKQVEKALEBANSKL 124

RESULT 11

US-08-914-479A-6

; Sequence 6, Application US/08914479A
; Patent No. 6419932
; GENERAL INFORMATION:
; APPLICANT: Dale, James B.
; TITLE OF INVENTION: ANTIGEN OF HYBRID M PROTEIN AND CARRIER
; FILE REFERENCE: 481112.404C2
; CURRENT APPLICATION NUMBER: US/08/914,479A
; CURRENT FILING DATE: 1997-08-19
; PRIOR APPLICATION NUMBER: 08/409,270
; PRIOR FILING DATE: 1995-03-23
; PRIOR APPLICATION NUMBER: 07/945,860
; PRIOR FILING DATE: 1992-09-16
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 284
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: An antigen of three fragments of M5 and a carrier
; OTHER INFORMATION: of the COOH-terminal portion of M5
US-08-914-479A-6

Query Match 51.8%; Score 71; DB 2; Length 284;
Best Local Similarity 75.0%; Pred. No. 0.61;
Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 9 ASREAKQVEKALEBQLEBDKV 28
|||||:|:
Db 135 ASREAKQVEKALEBANSKL 154

RESULT 12

US-08-937-271-10

; Sequence 10, Application US/08937271
; Patent No. 6063386
; GENERAL INFORMATION:
; APPLICANT: Dale, James B.
; APPLICANT: Lederer, James W.
; TITLE OF INVENTION: RECOMBINANT MULTIVALENT M PROTEIN
; TITLE OF INVENTION: VACCINE
; NUMBER OF SEQUENCES: 40
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/937,271
; FILING DATE: 15-SEP-1997
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:

; NAME: Rosenman, Stephen J.
; REGISTRATION NUMBER: 43,058
; REFERENCE/DOCKET NUMBER: 481112.405C1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 682-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 305 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-937-271-10

Query Match 51.8%; Score 71; DB 2; Length 305;
Best Local Similarity 75.0%; Pred. No. 0.66;
Matches 15; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 9 ASREAKQVEKALEBQLEBDKV 28
|||||:|:
Db 156 ASREAKQVEKALEBANSKL 175

RESULT 13

US-08-817-811-66

; Sequence 66, Application US/08817811
; Patent No. 6174528
; GENERAL INFORMATION:
; APPLICANT: Cooper, Juan A.
; APPLICANT: Reif, Wendy A.
; APPLICANT: Good, Michael F.
; APPLICANT: Saul, Allan J.
; TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
; NUMBER OF SEQUENCES: 97
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/817,811
; FILING DATE: 14-APR-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO 96/11944
; FILING DATE: 25-APR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Highlander, Steven L.
; REGISTRATION NUMBER: 37,642
; REFERENCE/DOCKET NUMBER: FBRC:005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512/418-3000
; TELEFAX: 512/474-7577
; INFORMATION FOR SEQ ID NO: 66:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
US-08-817-811-66

Query Match 50.0%; Score 68.5; DB 2; Length 28;
Best Local Similarity 55.2%; Pred. No. 0.11;
Matches 16; Conservative 4; Mismatches 2; Indels 7; Gaps 1;

Qy 1 KQAEKVKASREAKQVEKALBQLEDKVK 29
|||
Db 4 KQAEKVK-----KQLEDKVBELODKVK 25

RESULT 14

US-08-817-811-52
Sequence 52, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.
APPLICANT: Relif, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allan J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817,811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION NUMBER: WO 96/11944
APPLICATION NUMBER: 25-APR-1996
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FBRC:005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 52:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-817-811-52

Query Match 48.9%; Score 67; DB 2; Length 29;
Best Local Similarity 48.3%; Pred. No. 0.17;
Matches 14; Conservative 6; Mismatches 9; Indels 0; Gaps 0;

Qy 1 KQAEKVKASREAKQVEKALBQLEDKVK 29
|||
Db 1 KQLEDKVMAQDTADRLTEKLNQLEDKVK 29

RESULT 15
US-08-817-811-15
Sequence 15, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.
APPLICANT: Relif, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allan J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESSES:

ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817,811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION NUMBER: WO 96/11944
APPLICATION NUMBER: 25-APR-1996
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FBRC:005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-817-811-15

Query Match 47.8%; Score 65.5; DB 2; Length 28;
Best Local Similarity 58.6%; Pred. No. 0.24;
Matches 17; Conservative 2; Mismatches 3; Indels 7; Gaps 1;

Qy 1 KQAEKVKASREAKQVEKALBQLEDKVK 29
|||
Db 5 KQAEKVDASREAK-----QLEDKVK 26

Search completed: March 28, 2006, 18:48:46
Job time : 46 secs

GenCore version 5.1.7
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OM protein - protein search, using bw model

Run on: March 28, 2006, 19:13:55 ; Search time 164 Seconds
(without alignments)
35.666 Million cell updates/sec

Title: US-10-706-275A-1
Perfect score: 64
Sequence: 1 ASRAKQKVERALE 14

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published Applications_MA_Main:*

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:.*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	64	100.0	14	US-10-706-275-1	Sequence 1, Appli
2	64	100.0	20	US-10-044-034-22	Sequence 22, Appli
3	64	100.0	20	US-10-706-275-5	Sequence 5, Appli
4	64	100.0	29	US-10-706-275-2	Sequence 2, Appli
5	64	100.0	29	US-10-706-275-15	Sequence 15, Appli
6	64	100.0	254	US-10-141-627-4	Sequence 4, Appli
7	64	100.0	284	US-10-141-627-6	Sequence 6, Appli
8	64	100.0	443	US-08-325-278-6	Sequence 6, Appli
9	64	100.0	553	US-10-474-792-672	Sequence 672, App
10	64	100.0	558	US-10-733-923-3295	Sequence 3295, Ap
11	57	89.1	28	US-10-706-275-12	Sequence 12, Appli
12	56	87.5	28	US-10-706-275-13	Sequence 13, Appli
13	56	87.5	28	US-10-706-275-14	Sequence 14, Appli
14	52	81.2	28	US-10-706-275-11	Sequence 11, Appli
15	47.5	74.2	28	US-10-706-275-10	Sequence 10, Appli
16	45	70.3	545	US-10-369-493-5342	Sequence 5342, Ap
17	44.5	69.5	28	US-10-706-275-9	Sequence 9, Appli
18	42	65.6	65	US-09-309-196-83	Sequence 83, Appli
19	42	65.6	65	US-10-263-341-83	Sequence 83, Appli
20	42	65.6	65	US-10-600-003-83	Sequence 83, Appli
21	42	65.6	86	US-10-424-599-223904	Sequence 223904,
22	42	65.6	377	US-09-952-680A-15	Sequence 7618, Ap
23	42	65.6	379	US-10-408-765A-105	Sequence 15, Appli
24	42	65.6	379	US-10-215-982-15	Sequence 105, App
25	42	65.6	379	US-10-732-923-7963	Sequence 7963, Ap
26	42	65.6	379	US-10-732-923-8015	Sequence 8015, Ap
27	42	65.6	379	US-10-732-923-8015	Sequence 8015, Ap

28	42	65.6	380	US-09-952-680A-16	Sequence 16, Appli
29	42	65.6	380	US-10-215-982-16	Sequence 16, Appli
30	42	65.6	380	US-10-732-923-8016	Sequence 8016, Appli
31	42	65.6	380	US-10-732-923-8055	Sequence 8055, Ap
32	42	65.6	384	US-10-732-923-8022	Sequence 8022, Ap
33	42	65.6	388	US-10-732-923-8054	Sequence 8054, Ap
34	42	65.6	394	US-09-952-680A-13	Sequence 13, Appli
35	42	65.6	394	US-09-952-680A-13	Sequence 13, Appli
36	42	65.6	394	US-09-963-131-192	Sequence 192, App
37	42	65.6	394	US-09-963-131-194	Sequence 194, App
38	42	65.6	394	US-10-116-275-187	Sequence 187, App
39	42	65.6	394	US-10-352-943-18	Sequence 18, Appli
40	42	65.6	394	US-10-215-982-13	Sequence 13, Appli
41	42	65.6	394	US-10-684-422-194	Sequence 194, App
42	42	65.6	394	US-10-732-923-7589	Sequence 7589, Ap
43	42	65.6	394	US-10-732-923-7592	Sequence 7592, Ap
44	42	65.6	394	US-10-732-923-7620	Sequence 7620, Ap
45	42	65.6	394	US-10-732-923-7653	Sequence 7653, Ap
46	42	65.6	394	US-10-732-923-8017	Sequence 8017, Ap
47	42	65.6	394	US-10-732-923-8019	Sequence 8019, Ap
48	42	65.6	394	US-10-732-923-8058	Sequence 8058, Ap
49	42	65.6	395	US-09-952-680A-14	Sequence 14, Appli
50	42	65.6	395	US-10-215-982-14	Sequence 14, Appli
51	42	65.6	395	US-10-732-923-8021	Sequence 8021, Ap
52	42	65.6	397	US-10-732-923-8039	Sequence 8039, Ap
53	42	65.6	402	US-10-732-923-8059	Sequence 8059, Ap
54	42	65.6	720	US-10-164-163-16	Sequence 16, Appli
55	42	65.6	735	US-10-491-654-25	Sequence 25, Appli
56	42	65.6	775	US-10-139-483-6	Sequence 6, Appli
57	42	65.6	869	US-10-321-807-100	Sequence 100, App
58	42	65.6	869	US-10-321-807-100	Sequence 100, App
59	42	65.6	869	US-10-314-048A-100	Sequence 100, App
60	42	65.6	869	US-10-897-815-100	Sequence 100, App
61	42	65.6	869	US-10-930-662-100	Sequence 100, App
62	42	65.6	926	US-10-321-807-104	Sequence 104, App
63	42	65.6	926	US-10-321-807-104	Sequence 104, App
64	42	65.6	926	US-10-314-048A-104	Sequence 104, App
65	42	65.6	926	US-10-930-662-104	Sequence 104, App
66	42	65.6	926	US-10-897-815-104	Sequence 104, App
67	42	65.6	1181	US-09-826-509-587	Sequence 587, App
68	42	65.6	1181	US-10-925-095-587	Sequence 587, App
69	42	65.6	1965	US-10-369-493-3279	Sequence 3279, App
70	41	64.1	399	US-10-094-749-3048	Sequence 3048, App
71	41	64.1	399	US-10-496-860-4	Sequence 4, Appli
72	41	64.1	893	US-10-425-115-366336	Sequence 366336,
73	40	62.5	28	US-10-706-275-8	Sequence 8, Appli
74	40	62.5	127	US-10-389-566-1140	Sequence 1140, Ap
75	40	62.5	260	US-10-468-091-3	Sequence 3, Appli
76	40	62.5	284	US-09-745-763-207	Sequence 207, App
77	40	62.5	284	US-10-028-072-118	Sequence 118, App
78	40	62.5	284	US-10-140-808-118	Sequence 118, App
79	40	62.5	284	US-10-121-049-118	Sequence 118, App
80	40	62.5	284	US-10-123-904-118	Sequence 118, App
81	40	62.5	284	US-10-140-470-118	Sequence 118, App
82	40	62.5	284	US-10-140-474-118	Sequence 118, App
83	40	62.5	284	US-10-142-431-118	Sequence 118, App
84	40	62.5	284	US-10-142-431-118	Sequence 118, App
85	40	62.5	284	US-10-142-431-118	Sequence 118, App
86	40	62.5	284	US-10-142-431-118	Sequence 118, App
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88	40	62.5	284	US-10-142-431-118	Sequence 118, App
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98	40	62.5	284	US-10-142-431-118	Sequence 118, App
99	40	62.5	284	US-10-142-431-118	Sequence 118, App
100	40	62.5	284	US-10-142-431-118	Sequence 118, App

101	40	62.5	284	4	US-10-123-903-118	Sequence 118, App
102	40	62.5	284	4	US-10-124-819-118	Sequence 118, App
103	40	62.5	284	4	US-10-124-822-118	Sequence 118, App
104	40	62.5	284	4	US-10-140-925-118	Sequence 118, App
105	40	62.5	284	4	US-10-160-498-118	Sequence 118, App
106	40	62.5	284	4	US-10-124-824-118	Sequence 118, App
107	40	62.5	284	4	US-10-127-825A-118	Sequence 118, App
108	40	62.5	284	4	US-10-127-829A-118	Sequence 118, App
109	40	62.5	284	4	US-10-127-835A-118	Sequence 118, App
110	40	62.5	284	4	US-10-127-839A-118	Sequence 118, App
111	40	62.5	284	4	US-10-127-901A-118	Sequence 118, App
112	40	62.5	284	4	US-10-131-813A-118	Sequence 118, App
113	40	62.5	284	4	US-10-131-818A-118	Sequence 118, App
114	40	62.5	284	4	US-10-131-823A-118	Sequence 118, App
115	40	62.5	284	4	US-10-131-823A-118	Sequence 118, App
116	40	62.5	284	4	US-10-131-824A-118	Sequence 118, App
117	40	62.5	284	4	US-10-131-830A-118	Sequence 118, App
118	40	62.5	284	4	US-10-131-837A-118	Sequence 118, App
119	40	62.5	284	4	US-10-137-872A-118	Sequence 118, App
120	40	62.5	284	4	US-10-147-500-118	Sequence 118, App
121	40	62.5	284	4	US-10-147-502-118	Sequence 118, App
122	40	62.5	284	4	US-10-147-515-118	Sequence 118, App
123	40	62.5	284	4	US-10-147-517-118	Sequence 118, App
124	40	62.5	284	4	US-10-147-526-118	Sequence 118, App
125	40	62.5	284	4	US-10-147-527-118	Sequence 118, App
126	40	62.5	284	4	US-10-121-043-118	Sequence 118, App
127	40	62.5	284	4	US-10-121-041-118	Sequence 118, App
128	40	62.5	284	4	US-10-121-047-118	Sequence 118, App
129	40	62.5	284	4	US-10-123-015-118	Sequence 118, App
130	40	62.5	284	4	US-10-123-902-118	Sequence 118, App
131	40	62.5	284	4	US-10-123-908-118	Sequence 118, App
132	40	62.5	284	4	US-10-123-909-118	Sequence 118, App
133	40	62.5	284	4	US-10-123-910-118	Sequence 118, App
134	40	62.5	284	4	US-10-124-813-118	Sequence 118, App
135	40	62.5	284	4	US-10-124-817-118	Sequence 118, App
136	40	62.5	284	4	US-10-125-922-118	Sequence 118, App
137	40	62.5	284	4	US-10-125-924-118	Sequence 118, App
138	40	62.5	284	4	US-10-140-860-118	Sequence 118, App
139	40	62.5	284	4	US-10-142-417-118	Sequence 118, App
140	40	62.5	284	4	US-10-147-519-118	Sequence 118, App
141	40	62.5	284	4	US-10-157-782-118	Sequence 118, App
142	40	62.5	284	4	US-10-152-395-118	Sequence 118, App
143	40	62.5	284	4	US-10-125-930A-118	Sequence 118, App
144	40	62.5	284	4	US-10-127-831A-118	Sequence 118, App
145	40	62.5	284	4	US-10-127-831A-118	Sequence 118, App
146	40	62.5	284	4	US-10-127-837A-118	Sequence 118, App
147	40	62.5	284	4	US-10-127-838A-118	Sequence 118, App
148	40	62.5	284	4	US-10-127-842A-118	Sequence 118, App
149	40	62.5	284	4	US-10-127-843A-118	Sequence 118, App
150	40	62.5	284	4	US-10-127-845A-118	Sequence 118, App
151	40	62.5	284	4	US-10-127-845A-118	Sequence 118, App
152	40	62.5	284	4	US-10-127-846A-118	Sequence 118, App
153	40	62.5	284	4	US-10-127-848A-118	Sequence 118, App
154	40	62.5	284	4	US-10-127-850A-118	Sequence 118, App
155	40	62.5	284	4	US-10-127-851A-118	Sequence 118, App
156	40	62.5	284	4	US-10-128-684A-118	Sequence 118, App
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158	40	62.5	284	4	US-10-128-686A-118	Sequence 118, App
159	40	62.5	284	4	US-10-128-690A-118	Sequence 118, App
160	40	62.5	284	4	US-10-128-691A-118	Sequence 118, App
161	40	62.5	284	4	US-10-131-819A-118	Sequence 118, App
162	40	62.5	284	4	US-10-131-829A-118	Sequence 118, App
163	40	62.5	284	4	US-10-131-836A-118	Sequence 118, App
164	40	62.5	284	4	US-10-146-729-118	Sequence 118, App
165	40	62.5	284	4	US-10-146-791-118	Sequence 118, App
166	40	62.5	284	4	US-10-147-508-118	Sequence 118, App
167	40	62.5	284	4	US-10-147-512-118	Sequence 118, App
168	40	62.5	284	4	US-10-147-515-118	Sequence 118, App
169	40	62.5	284	4	US-10-121-040-118	Sequence 118, App
170	40	62.5	284	4	US-10-121-040-118	Sequence 118, App
171	40	62.5	284	4	US-10-121-056-118	Sequence 118, App
172	40	62.5	284	4	US-10-121-061-118	Sequence 118, App
173	40	62.5	284	4	US-10-123-335-118	Sequence 118, App
174	40	62.5	284	4	US-10-124-818-118	Sequence 118, App
175	40	62.5	284	4	US-10-124-818-118	Sequence 118, App
176	40	62.5	284	4	US-10-124-818-118	Sequence 118, App
177	40	62.5	284	4	US-10-123-907-118	Sequence 118, App
178	40	62.5	284	4	US-10-123-907-118	Sequence 118, App
179	40	62.5	284	4	US-10-123-907-118	Sequence 118, App
180	40	62.5	284	4	US-10-125-921A-118	Sequence 118, App
181	40	62.5	284	4	US-10-125-921A-118	Sequence 118, App
182	40	62.5	284	4	US-10-125-928A-118	Sequence 118, App
183	40	62.5	284	4	US-10-127-822A-118	Sequence 118, App
184	40	62.5	284	4	US-10-127-822A-118	Sequence 118, App
185	40	62.5	284	4	US-10-127-824A-118	Sequence 118, App
186	40	62.5	284	4	US-10-127-824A-118	Sequence 118, App
187	40	62.5	284	4	US-10-127-827A-118	Sequence 118, App
188	40	62.5	284	4	US-10-127-827A-118	Sequence 118, App
189	40	62.5	284	4	US-10-127-831A-118	Sequence 118, App
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191	40	62.5	284	4	US-10-127-833A-118	Sequence 118, App
192	40	62.5	284	4	US-10-127-833A-118	Sequence 118, App
193	40	62.5	284	4	US-10-127-834A-118	Sequence 118, App
194	40	62.5	284	4	US-10-127-834A-118	Sequence 118, App
195	40	62.5	284	4	US-10-128-687A-118	Sequence 118, App
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199	40	62.5	284	4	US-10-128-694A-118	Sequence 118, App
200	40	62.5	284	4	US-10-131-825A-118	Sequence 118, App
201	40	62.5	284	4	US-10-131-825A-118	Sequence 118, App
202	40	62.5	284	4	US-10-131-815A-118	Sequence 118, App
203	40	62.5	284	4	US-10-131-815A-118	Sequence 118, App
204	40	62.5	284	4	US-10-131-822A-118	Sequence 118, App
205	40	62.5	284	4	US-10-131-822A-118	Sequence 118, App
206	40	62.5	284	4	US-10-131-828A-118	Sequence 118, App
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208	40	62.5	284	4	US-10-137-864A-118	Sequence 118, App
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210	40	62.5	284	4	US-10-147-523-118	Sequence 118, App
211	40	62.5	284	4	US-10-158-785-118	Sequence 118, App
212	40	62.5	284	4	US-10-121-051-118	Sequence 118, App
213	40	62.5	284	4	US-10-121-042-118	Sequence 118, App
214	40	62.5	284	4	US-10-123-912-118	Sequence 118, App
215	40	62.5	284	4	US-10-123-912-118	Sequence 118, App
216	40	62.5	284	4	US-10-123-912-118	Sequence 118, App
217	40	62.5	284	4	US-10-127-847A-118	Sequence 118, App
218	40	62.5	284	4	US-10-146-727-118	Sequence 118, App
219	40	62.5	284	4	US-10-146-727-118	Sequence 118, App
220	40	62.5	284	4	US-10-146-788-118	Sequence 118, App
221	40	62.5	284	4	US-10-153-380-118	Sequence 118, App
222	40	62.5	284	4	US-10-153-380-118	Sequence 118, App
223	40	62.5	284	4	US-10-153-93A-118	Sequence 118, App
224	40	62.5	284	4	US-10-140-807-118	Sequence 118, App
225	40	62.5	284	4	US-10-140-807-118	Sequence 118, App
226	40	62.5	284	4	US-10-140-924-118	Sequence 118, App
227	40	62.5	284	4	US-10-140-924-118	Sequence 118, App
228	40	62.5	284	4	US-10-141-698-118	Sequence 118, App
229	40	62.5	284	4	US-10-141-702-118	Sequence 118, App
230	40	62.5	284	4	US-10-141-702-118	Sequence 118, App
231	40	62.5	284	4	US-10-141-702-118	Sequence 118, App
232	40	62.5	284	4	US-10-143-033-118	Sequence 118, App
233	40	62.5	284	4	US-10-144-994-118	Sequence 118, App
234	40	62.5	284	4	US-10-144-994-118	Sequence 118, App
235	40	62.5	284	4	US-10-145-628-118	Sequence 118, App
236	40	62.5	284	4	US-10-145-628-118	Sequence 118, App
237	40	62.5	284	4	US-10-145-746-118	Sequence 118, App
238	40	62.5	284	4	US-10-145-746-118	Sequence 118, App
239	40	62.5	284	4	US-10-145-828-118	Sequence 118, App
240	40	62.5	284	4	US-10-145-870-118	Sequence 118, App
241	40	62.5	284	4	US-10-145-870-118	Sequence 118, App
242	40	62.5	284	4	US-10-145-959-118	Sequence 118, App
243	40	62.5	284	4	US-10-145-959-118	Sequence 118, App
244	40	62.5	284	4	US-10-146-725-118	Sequence 118, App
245	40	62.5	284	4	US-10-146-725-118	Sequence 118, App
246	40	62.5	284	4	US-10-146-795-118	Sequence 118, App
247	40	62.5	284	4	US-10-146-795-118	Sequence 118, App
248	40	62.5	284	4	US-10-147-501-118	Sequence 118, App
249	40	62.5	284	4	US-10-147-501-118	Sequence 118, App
250	40	62.5	284	4	US-10-147-501-118	Sequence 118, App

247	40	62.5	284	4	US-10-147-504-118	Sequence 118, App	320	40	62.5	284	4	US-10-145-877-118	Sequence 118, App
248	40	62.5	284	4	US-10-147-506-118	Sequence 118, App	321	40	62.5	284	4	US-10-145-958-118	Sequence 118, App
249	40	62.5	284	4	US-10-147-509-118	Sequence 118, App	322	40	62.5	284	4	US-10-146-787-118	Sequence 118, App
250	40	62.5	284	4	US-10-147-510-118	Sequence 118, App	323	40	62.5	284	4	US-10-146-793-118	Sequence 118, App
251	40	62.5	284	4	US-10-147-511-118	Sequence 118, App	324	40	62.5	284	4	US-10-146-799-118	Sequence 118, App
252	40	62.5	284	4	US-10-147-529-118	Sequence 118, App	325	40	62.5	284	4	US-10-147-480-118	Sequence 118, App
253	40	62.5	284	4	US-10-152-357-118	Sequence 118, App	326	40	62.5	284	4	US-10-147-485-118	Sequence 118, App
254	40	62.5	284	4	US-10-153-586-118	Sequence 118, App	327	40	62.5	284	4	US-10-147-486-118	Sequence 118, App
255	40	62.5	284	4	US-10-158-786-118	Sequence 118, App	328	40	62.5	284	4	US-10-147-487-118	Sequence 118, App
256	40	62.5	284	4	US-10-137-870-118	Sequence 118, App	329	40	62.5	284	4	US-10-147-490-118	Sequence 118, App
257	40	62.5	284	4	US-10-140-018-118	Sequence 118, App	330	40	62.5	284	4	US-10-147-494-118	Sequence 118, App
258	40	62.5	284	4	US-10-140-021-118	Sequence 118, App	331	40	62.5	284	4	US-10-147-514-118	Sequence 118, App
259	40	62.5	284	4	US-10-140-471-118	Sequence 118, App	332	40	62.5	284	4	US-10-147-524-118	Sequence 118, App
260	40	62.5	284	4	US-10-140-922-118	Sequence 118, App	333	40	62.5	284	4	US-10-147-529-118	Sequence 118, App
261	40	62.5	284	4	US-10-145-631-118	Sequence 118, App	334	40	62.5	284	4	US-10-152-379-118	Sequence 118, App
262	40	62.5	284	4	US-10-145-633-118	Sequence 118, App	335	40	62.5	284	4	US-10-152-394-118	Sequence 118, App
263	40	62.5	284	4	US-10-158-783-118	Sequence 118, App	336	40	62.5	284	4	US-10-152-394-118	Sequence 118, App
264	40	62.5	284	4	US-10-140-274-118	Sequence 118, App	337	40	62.5	284	4	US-10-156-847-118	Sequence 118, App
265	40	62.5	284	4	US-10-140-019-118	Sequence 118, App	338	40	62.5	284	4	US-10-157-779-118	Sequence 118, App
266	40	62.5	284	4	US-10-140-022-118	Sequence 118, App	339	40	62.5	284	4	US-10-157-798-118	Sequence 118, App
267	40	62.5	284	4	US-10-140-861-118	Sequence 118, App	340	40	62.5	284	4	US-10-147-491-118	Sequence 118, App
268	40	62.5	284	4	US-10-140-862-118	Sequence 118, App	341	40	62.5	284	4	US-10-160-504-118	Sequence 118, App
269	40	62.5	284	4	US-10-141-697-118	Sequence 118, App	342	40	62.5	284	4	US-10-147-520-118	Sequence 118, App
270	40	62.5	284	4	US-10-141-700-118	Sequence 118, App	343	40	62.5	284	4	US-10-157-783-118	Sequence 118, App
271	40	62.5	284	4	US-10-141-705-118	Sequence 118, App	344	40	62.5	284	4	US-10-176-989-118	Sequence 118, App
272	40	62.5	284	4	US-10-141-753-118	Sequence 118, App	345	40	62.5	284	4	US-10-147-491-118	Sequence 118, App
273	40	62.5	284	4	US-10-141-758-118	Sequence 118, App	346	40	62.5	284	4	US-10-152-378-118	Sequence 118, App
274	40	62.5	284	4	US-10-142-418-118	Sequence 118, App	347	40	62.5	284	4	US-10-152-382-118	Sequence 118, App
275	40	62.5	284	4	US-10-142-420-118	Sequence 118, App	348	40	62.5	284	4	US-10-152-383-118	Sequence 118, App
276	40	62.5	284	4	US-10-142-422-118	Sequence 118, App	349	40	62.5	284	4	US-10-152-384-118	Sequence 118, App
277	40	62.5	284	4	US-10-142-427-118	Sequence 118, App	350	40	62.5	284	4	US-10-152-387-118	Sequence 118, App
278	40	62.5	284	4	US-10-142-760-118	Sequence 118, App	351	40	62.5	284	4	US-10-152-389-118	Sequence 118, App
279	40	62.5	284	4	US-10-145-831-118	Sequence 118, App	352	40	62.5	284	4	US-10-152-390-118	Sequence 118, App
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281	40	62.5	284	4	US-10-127-840A-118	Sequence 118, App	354	40	62.5	284	4	US-10-153-756-118	Sequence 118, App
282	40	62.5	284	4	US-10-142-424-118	Sequence 118, App	355	40	62.5	284	4	US-10-157-779-118	Sequence 118, App
283	40	62.5	284	4	US-10-142-761-118	Sequence 118, App	356	40	62.5	284	4	US-10-157-784-118	Sequence 118, App
284	40	62.5	284	4	US-10-142-763-118	Sequence 118, App	357	40	62.5	284	4	US-10-157-797-118	Sequence 118, App
285	40	62.5	284	4	US-10-142-765-118	Sequence 118, App	358	40	62.5	284	4	US-10-158-491-118	Sequence 118, App
286	40	62.5	284	4	US-10-142-887-118	Sequence 118, App	359	40	62.5	284	4	US-10-142-762-118	Sequence 118, App
287	40	62.5	284	4	US-10-142-888-118	Sequence 118, App	360	40	62.5	284	4	US-10-142-764-118	Sequence 118, App
288	40	62.5	284	4	US-10-143-034-118	Sequence 118, App	361	40	62.5	284	4	US-10-142-766-118	Sequence 118, App
289	40	62.5	284	4	US-10-143-116-118	Sequence 118, App	362	40	62.5	284	4	US-10-145-625-118	Sequence 118, App
290	40	62.5	284	4	US-10-144-957-118	Sequence 118, App	363	40	62.5	284	4	US-10-145-627-118	Sequence 118, App
291	40	62.5	284	4	US-10-144-992-118	Sequence 118, App	364	40	62.5	284	4	US-10-145-960-118	Sequence 118, App
292	40	62.5	284	4	US-10-145-015-118	Sequence 118, App	365	40	62.5	284	4	US-10-145-962-118	Sequence 118, App
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296	40	62.5	284	4	US-10-145-630-118	Sequence 118, App	369	40	62.5	284	4	US-10-147-505-118	Sequence 118, App
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298	40	62.5	284	4	US-10-145-752-118	Sequence 118, App	371	40	62.5	284	4	US-10-152-398-118	Sequence 118, App
299	40	62.5	284	4	US-10-145-754-118	Sequence 118, App	372	40	62.5	284	4	US-10-139-980-118	Sequence 118, App
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302	40	62.5	284	4	US-10-145-820-118	Sequence 118, App	375	40	62.5	284	4	US-10-121-044-118	Sequence 118, App
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304	40	62.5	284	4	US-10-145-873-118	Sequence 118, App	377	40	62.5	284	4	US-10-121-057-118	Sequence 118, App
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306	40	62.5	284	4	US-10-147-482-118	Sequence 118, App	379	40	62.5	284	4	US-10-121-059-118	Sequence 118, App
307	40	62.5	284	4	US-10-147-503-118	Sequence 118, App	380	40	62.5	284	4	US-10-124-816-118	Sequence 118, App
308	40	62.5	284	4	US-10-147-522-118	Sequence 118, App	381	40	62.5	284	4	US-10-124-820-118	Sequence 118, App
309	40	62.5	284	4	US-10-152-401-118	Sequence 118, App	382	40	62.5	284	4	US-10-125-704-118	Sequence 118, App
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393	40	62.5	284	4	US-10-152-371-118	Sequence 118, App	466	40	62.5	284	4	US-10-147-489-118	Sequence 118, App
394	40	62.5	284	4	US-10-152-374-118	Sequence 118, App	467	40	62.5	284	4	US-10-147-507-118	Sequence 118, App
395	40	62.5	284	4	US-10-152-375-118	Sequence 118, App	468	40	62.5	284	4	US-10-147-535-118	Sequence 118, App
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397	40	62.5	284	4	US-10-152-378-118	Sequence 118, App	470	40	62.5	284	4	US-10-152-376-118	Sequence 118, App
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399	40	62.5	284	4	US-10-152-391-118	Sequence 118, App	472	40	62.5	284	4	US-10-152-400-118	Sequence 118, App
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401	40	62.5	284	4	US-10-156-848-118	Sequence 118, App	474	40	62.5	284	4	US-10-157-800-118	Sequence 118, App
402	40	62.5	284	4	US-10-157-785-118	Sequence 118, App	475	40	62.5	284	4	US-10-157-800-118	Sequence 118, App
403	40	62.5	284	4	US-10-157-794-118	Sequence 118, App	476	40	62.5	284	4	US-10-157-801-118	Sequence 118, App
404	40	62.5	284	4	US-10-157-796-118	Sequence 118, App	477	40	62.5	284	4	US-10-157-802-118	Sequence 118, App
405	40	62.5	284	4	US-10-150-500-118	Sequence 118, App	478	40	62.5	284	4	US-10-158-784-118	Sequence 118, App
406	40	62.5	284	4	US-10-121-046-118	Sequence 118, App	479	40	62.5	284	4	US-10-158-789-118	Sequence 118, App
407	40	62.5	284	4	US-10-123-156-118	Sequence 118, App	480	40	62.5	284	4	US-10-192-011-118	Sequence 118, App
408	40	62.5	284	4	US-10-123-214-118	Sequence 118, App	481	40	62.5	284	4	US-10-139-963-118	Sequence 118, App
409	40	62.5	284	4	US-10-125-805-118	Sequence 118, App	482	40	62.5	284	4	US-10-140-020-118	Sequence 118, App
410	40	62.5	284	4	US-10-124-821-118	Sequence 118, App	483	40	62.5	284	4	US-10-140-023-118	Sequence 118, App
411	40	62.5	284	4	US-10-152-385-118	Sequence 118, App	484	40	62.5	284	4	US-10-140-809-118	Sequence 118, App
412	40	62.5	284	4	US-10-152-393-118	Sequence 118, App	485	40	62.5	284	4	US-10-140-809-118	Sequence 118, App
413	40	62.5	284	4	US-10-152-396-118	Sequence 118, App	486	40	62.5	284	4	US-10-140-865-118	Sequence 118, App
414	40	62.5	284	4	US-10-153-552-118	Sequence 118, App	487	40	62.5	284	4	US-10-141-701-118	Sequence 118, App
415	40	62.5	284	4	US-10-153-840-118	Sequence 118, App	488	40	62.5	284	4	US-10-141-754-118	Sequence 118, App
416	40	62.5	284	4	US-10-156-841-118	Sequence 118, App	489	40	62.5	284	4	US-10-141-760-118	Sequence 118, App
417	40	62.5	284	4	US-10-156-842-118	Sequence 118, App	490	40	62.5	284	4	US-10-142-425-118	Sequence 118, App
418	40	62.5	284	4	US-10-156-844-118	Sequence 118, App	491	40	62.5	284	4	US-10-142-430-118	Sequence 118, App
419	40	62.5	284	4	US-10-156-845-118	Sequence 118, App	492	40	62.5	284	4	US-10-143-113-118	Sequence 118, App
420	40	62.5	284	4	US-10-156-846-118	Sequence 118, App	493	40	62.5	284	4	US-10-146-730-118	Sequence 118, App
421	40	62.5	284	4	US-10-121-048-118	Sequence 118, App	494	40	62.5	284	4	US-10-146-792-118	Sequence 118, App
422	40	62.5	284	4	US-10-121-052-118	Sequence 118, App	495	40	62.5	284	4	US-10-158-791-118	Sequence 118, App
423	40	62.5	284	4	US-10-121-053-118	Sequence 118, App	496	40	62.5	284	4	US-10-320-181-15	Sequence 15, Appl
424	40	62.5	284	4	US-10-121-054-118	Sequence 118, App	497	40	62.5	284	4	US-10-156-843-118	Sequence 118, App
425	40	62.5	284	4	US-10-121-063-118	Sequence 118, App	498	40	62.5	284	4	US-10-157-786-118	Sequence 118, App
426	40	62.5	284	4	US-10-123-212-118	Sequence 118, App	499	40	62.5	284	4	US-10-157-805-118	Sequence 118, App
427	40	62.5	284	4	US-10-123-213-118	Sequence 118, App	500	40	62.5	284	4	US-10-147-528-118	Sequence 118, App
428	40	62.5	284	4	US-10-123-291-118	Sequence 118, App	501	40	62.5	284	4	US-10-291-172-267	Sequence 267, Ap
429	40	62.5	284	4	US-10-123-322-118	Sequence 118, App	502	40	62.5	284	4	US-10-264-237-267	Sequence 267, Ap
430	40	62.5	284	4	US-10-123-771-118	Sequence 118, App	503	40	62.5	284	4	US-10-128-692A-118	Sequence 118, App
431	40	62.5	284	4	US-10-123-911-118	Sequence 118, App	504	40	62.5	284	4	US-10-140-927-118	Sequence 118, App
432	40	62.5	284	4	US-10-124-823-118	Sequence 118, App	505	40	62.5	284	4	US-10-147-493-118	Sequence 118, App
433	40	62.5	284	4	US-10-125-931-118	Sequence 118, App	506	40	62.5	284	4	US-10-145-127-118	Sequence 118, App
434	40	62.5	284	4	US-10-125-932-118	Sequence 118, App	507	40	62.5	284	4	US-10-160-503-118	Sequence 118, App
435	40	62.5	284	4	US-10-127-852A-118	Sequence 118, App	508	40	62.5	284	4	US-10-221-278-267	Sequence 267, App
436	40	62.5	284	4	US-10-127-900A-118	Sequence 118, App	509	40	62.5	284	4	US-10-143-118-118	Sequence 118, App
437	40	62.5	284	4	US-10-128-685A-118	Sequence 118, App	510	40	62.5	284	4	US-10-144-993-118	Sequence 118, App
438	40	62.5	284	4	US-10-131-820A-118	Sequence 118, App	511	40	62.5	284	4	US-10-158-787-118	Sequence 118, App
439	40	62.5	284	4	US-10-142-886-118	Sequence 118, App	512	40	62.5	284	4	US-10-142-426-118	Sequence 118, App
440	40	62.5	284	4	US-10-146-728-118	Sequence 118, App	513	40	62.5	284	4	US-10-140-024-118	Sequence 118, App
441	40	62.5	284	4	US-10-146-786-118	Sequence 118, App	514	40	62.5	284	4	US-10-147-513-118	Sequence 118, App
442	40	62.5	284	4	US-10-147-499-118	Sequence 118, App	515	40	62.5	284	4	US-10-152-572-118	Sequence 118, App
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448	40	62.5	284	4	US-10-140-863-118	Sequence 118, App	521	40	62.5	284	4	US-10-147-518-118	Sequence 118, App
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452	40	62.5	284	4	US-10-141-757-118	Sequence 118, App	525	40	62.5	284	4	US-10-931-886-118	Sequence 118, App
453	40	62.5	284	4	US-10-141-762-118	Sequence 118, App	526	40	62.5	284	4	US-10-158-788-118	Sequence 118, App
454	40	62.5	284	4	US-10-142-428-118	Sequence 118, App	527	40	62.5	284	4	US-10-955-952-118	Sequence 118, App
455	40	62.5	284	4	US-10-142-429-118	Sequence 118, App	528	40	62.5	306	3	US-09-925-300-1668	Sequence 1668, Ap
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457	40	62.5	284	4	US-10-143-027-118	Sequence 118, App	530	40	62.5	790	4	US-10-425-115-250819	Sequence 250819, Sequence 206587,
458	40	62.5	284	4	US-10-143-115-118	Sequence 118, App	531	39	60.9	96	5	US-10-617-320-3416	Sequence 3416, Ap
459	40	62.5	284	4	US-10-144-956-118	Sequence 118, App	532	39	60.9	103	5	US-10-472-928-4388	Sequence 4388, Ap
460	40	62.5	284	4	US-10-144-958-118	Sequence 118, App	533	39	60.9	117	4	US-10-425-115-220588	Sequence 220588, Sequence 45088,
461	40	62.5	284	4	US-10-145-749-118	Sequence 118, App	534	39	60.9	146	3	US-09-925-301-1518	Sequence 1518, App
462	40	62.5	284	4	US-10-145-753-118	Sequence 118, App	535	39	60.9	148	5	US-10-472-928-2270	Sequence 2270, Ap
463	40	62.5	284	4	US-10-145-871-118	Sequence 118, App	536	39	60.9	178	4	US-10-425-115-220590	Sequence 220590, Sequence 71563, A
464	40	62.5	284	4	US-10-145-878-118	Sequence 118, App	537	39	60.9	230	4	US-10-282-122A-71563	Sequence 71563, A
465	40	62.5	284	4	US-10-146-794-118	Sequence 118, App	538	39	60.9	288	4	US-10-468-091-1	Sequence 1, Appl1

539	39	60.9	260	3	US-09-890-688-88	Sequence 88, Appl	612	37	57.8	300	4	US-10-282-122A-57781	Sequence 57781, A
540	39	60.9	260	4	US-10-408-765A-2402	Sequence 2402, Ap	613	37	57.8	304	3	US-09-933-999A-36	Sequence 36, Appl
541	39	60.9	260	4	US-10-408-765A-2572	Sequence 2572, Ap	614	37	57.8	304	4	US-10-219-700-36	Sequence 36, Appl
542	39	60.9	260	4	US-10-468-091-2	Sequence 2, Appl	615	37	57.8	304	4	US-10-333-002-26	Sequence 26, Appl
543	39	60.9	414	4	US-10-108-605-87	Sequence 87, Appl	616	37	57.8	304	4	US-10-474-776-243	Sequence 243, Appl
544	39	60.9	422	6	US-11-097-143-3576	Sequence 3576, Ap	617	37	57.8	304	5	US-10-472-828-184	Sequence 784, App
545	39	60.9	422	6	US-11-097-143-3630	Sequence 3630, Ap	618	37	57.8	304	5	US-10-968-317-36	Sequence 36, Appl
546	39	60.9	422	6	US-11-097-143-28416	Sequence 28416, A	619	37	57.8	391	4	US-10-282-122A-60624	Sequence 60624, A
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548	39	60.9	442	3	US-09-964-956-21	Sequence 21, Appl	621	37	57.8	406	4	US-10-437-963-204782	Sequence 204782, A
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552	39	60.9	442	4	US-10-241-220-110	Sequence 110, App	625	37	57.8	502	6	US-11-021-664-37	Sequence 37, Appl
553	39	60.9	442	4	US-10-169-395-70	Sequence 70, Appl	626	37	57.8	502	4	US-10-282-122A-73223	Sequence 73223, A
554	39	60.9	442	4	US-10-408-765A-1450	Sequence 1450, Ap	627	37	57.8	512	4	US-10-369-493-19660	Sequence 19660, A
555	39	60.9	442	5	US-10-872-972-110	Sequence 110, App	628	37	57.8	530	4	US-10-369-493-1554	Sequence 1554, Ap
556	39	60.9	442	5	US-10-872-991-110	Sequence 110, App	629	37	57.8	530	5	US-10-477-118-1	Sequence 1, Appl
557	39	60.9	461	4	US-10-236-392-156	Sequence 156, App	630	37	57.8	580	4	US-10-156-761-8637	Sequence 8637, Ap
558	39	60.9	621	4	US-10-283-122A-60850	Sequence 60850, A	631	37	57.8	611	4	US-10-108-60A-4318	Sequence 4318, Ap
559	39	60.9	978	4	US-10-087-192-333	Sequence 333, App	632	37	57.8	615	4	US-10-424-599-27799	Sequence 27799, A
560	39	60.9	979	4	US-10-425-115-36887	Sequence 36887, A	633	37	57.8	626	6	US-11-097-143-20787	Sequence 20787, A
561	39	60.9	1130	4	US-10-369-493-17683	Sequence 17683, A	634	37	57.8	680	6	US-11-097-143-30936	Sequence 30936, A
562	39	60.9	1639	6	US-11-097-143-6213	Sequence 6213, Ap	635	37	57.8	750	4	US-10-171-404A-2	Sequence 2, Appl
563	38	59.4	135	4	US-10-767-701-39334	Sequence 39334, A	636	37	57.8	806	5	US-10-485-986-13	Sequence 13, Appl
564	38	59.4	174	3	US-09-861-451A-58	Sequence 58, Appl	637	37	57.8	825	4	US-10-369-493-8932	Sequence 8932, Ap
565	38	59.4	205	3	US-09-815-242-5602	Sequence 5602, Ap	638	37	57.8	826	5	US-10-732-923-6933	Sequence 6933, Ap
566	38	59.4	205	3	US-09-815-242-12180	Sequence 12180, A	639	37	57.8	827	4	US-10-425-115-367188	Sequence 367188, A
567	38	59.4	205	4	US-10-282-122A-44038	Sequence 44038, A	640	37	57.8	954	4	US-10-425-115-190022	Sequence 190022, A
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573	38	59.4	381	5	US-10-215-982-18	Sequence 18, Appl	646	36.5	57.0	121	4	US-10-335-977-9716	Sequence 9716, Ap
574	38	59.4	381	5	US-10-733-923-7615	Sequence 7615, Ap	647	36.5	57.0	460	4	US-10-335-977-7112	Sequence 7112, Ap
575	38	59.4	381	5	US-10-733-923-7651	Sequence 7651, Ap	648	36.5	57.0	485	4	US-10-335-977-7113	Sequence 7113, Ap
576	38	59.4	381	5	US-10-733-923-8012	Sequence 8012, Ap	649	36.5	57.0	806	3	US-09-815-242-11622	Sequence 11622, A
577	38	59.4	381	5	US-10-756-149-5241	Sequence 5241, Ap	650	36.5	57.0	806	4	US-10-282-122A-59927	Sequence 59927, A
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594	37	57.8	59	4	US-10-424-599-263491	Sequence 263491, A	667	36	56.2	215	4	US-10-424-599-151794	Sequence 151794, Ap
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611	37	57.8	277	4	US-10-369-493-12416	Sequence 12416, A	684	36	56.2	409	4	US-10-412-699B-684	Sequence 684, App

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697	36	56.2	635	3	US-09-925-299-896	Sequence 896, App	770	35	54.7	280	4	US-10-282-122A-77733	Sequence 77733, A
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710	36	56.2	835	4	US-10-425-115-279769	Sequence 279769, A	783	35	54.7	366	4	US-10-369-493-21615	Sequence 21615, A
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713	36	56.2	908	4	US-10-032-585-7642	Sequence 7642, Ap	786	35	54.7	351	3	US-09-732-622A-361	Sequence 361, App
714	36	56.2	1125	5	US-10-684-129-7	Sequence 7, App1	787	35	54.7	351	4	US-10-309-584-361	Sequence 361, App
715	36	56.2	1231	4	US-10-369-493-3503	Sequence 3503, Ap	788	35	54.7	351	5	US-10-783-557-362	Sequence 362, App
716	36	56.2	1289	4	US-10-437-963-157119	Sequence 157119, A	789	35	54.7	355	4	US-10-437-963-160068	Sequence 160068,
717	36	56.2	1442	4	US-10-425-115-279551	Sequence 279551, A	790	35	54.7	353	4	US-10-767-701-43126	Sequence 43126, A
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747	35	54.7	98	4	US-10-424-599-157597	Sequence 157597, A	820	35	54.7	477	4	US-10-395-027-885	Sequence 885, App
748	35	54.7	107	3	US-09-820-843A-84	Sequence 84, App1	821	35	54.7	477	4	US-10-408-765A-536	Sequence 536, App
749	35	54.7	115	4	US-10-767-701-34395	Sequence 34395, A	822	35	54.7	477	5	US-10-408-765A-5085	Sequence 5085, App
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757	35	54.7	150	4	US-10-425-115-210422	Sequence 210422, A	830	35	54.7	555	3	US-09-815-242-10477	Sequence 10477, A

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849	35	54.7	605	4	US-10-408-765A-1538	Sequence 1538, Ap	922	107	3	US-09-056-019-11	Sequence 11, Appl		
850	35	54.7	606	3	US-09-820-905-5	Sequence 5, Appl1	923	107	3	US-09-949-039-113	Sequence 113, App		
851	35	54.7	606	4	US-10-369-493-19537	Sequence 19537, A	924	107	3	US-10-751-702-11	Sequence 11, Appl		
852	35	54.7	606	5	US-10-473-338A-5	Sequence 5, Appl1	925	107	6	US-11-032-644-11	Sequence 11, Appl		
853	35	54.7	607	4	US-10-389-566-1498	Sequence 1498, Ap	926	109	3	US-09-056-019-5	Sequence 5, Appl1		
854	35	54.7	608	4	US-10-156-761-14861	Sequence 14861, A	927	109	3	US-10-751-702-5	Sequence 5, Appl1		
855	35	54.7	612	4	US-10-375-253-65	Sequence 65, Appl1	928	109	6	US-11-032-644-5	Sequence 5, Appl1		
856	35	54.7	614	4	US-10-369-493-17208	Sequence 17208, A	929	110	3	US-09-765-272-102	Sequence 102, App		
857	35	54.7	624	4	US-10-282-122A-56215	Sequence 56215, A	930	110	3	US-09-925-300-1328	Sequence 1328, App		
858	35	54.7	624	4	US-10-282-122A-59970	Sequence 59970, A	931	110	6	US-11-106-649-102	Sequence 102, App		
859	35	54.7	627	4	US-10-425-115-226660	Sequence 226660, A	932	117	4	US-10-282-122A-56365	Sequence 56365, A		
860	35	54.7	641	4	US-10-369-493-3443	Sequence 3443, Ap	933	118	4	US-10-424-599-165364	Sequence 16364, A		
861	35	54.7	648	4	US-10-425-114-72736	Sequence 72736, A	934	121	4	US-10-424-599-233304	Sequence 23304, A		
862	35	54.7	660	4	US-10-375-253-42	Sequence 42, Appl	935	122	4	US-10-425-115-301079	Sequence 301079, A		
863	35	54.7	676	4	US-10-425-114-50892	Sequence 50892, A	936	123	4	US-10-437-963-133214	Sequence 133214, A		
864	35	54.7	702	4	US-10-437-963-140688	Sequence 140688, A	937	127	4	US-10-321-625-83	Sequence 83, Appl		
865	35	54.7	702	6	US-11-097-143-18255	Sequence 18255, A	938	127	5	US-10-370-715B-88	Sequence 88, Appl		
866	35	54.7	703	4	US-10-424-599-162204	Sequence 162204, A	939	128	4	US-10-425-114-61564	Sequence 61564, A		
867	35	54.7	730	3	US-09-748-875-68	Sequence 68, Appl1	940	128	4	US-10-425-114-61564	Sequence 61564, A		
868	35	54.7	730	3	US-09-298-523B-68	Sequence 68, Appl1	941	133	4	US-10-425-115-364583	Sequence 364583, A		
869	35	54.7	730	5	US-10-341-201-68	Sequence 68, Appl1	942	135	4	US-10-425-115-279819	Sequence 279819, A		
870	35	54.7	752	3	US-09-815-242-10788	Sequence 10788, A	943	147	4	US-10-425-115-356588	Sequence 356588, A		
871	35	54.7	752	4	US-10-282-122A-57068	Sequence 57068, A	944	149	3	US-09-738-126-3569	Sequence 3569, App		
872	35	54.7	757	4	US-10-437-963-181509	Sequence 181509, A	945	150	4	US-10-029-386-19786	Sequence 2786, A		
873	35	54.7	762	4	US-10-425-115-258151	Sequence 258151, A	946	153	4	US-10-424-599-278028	Sequence 278028, A		
874	35	54.7	778	4	US-10-080-334-238	Sequence 238, App	947	153	5	US-10-739-930-8991	Sequence 8991, Ap		
875	35	54.7	782	6	US-11-097-143-14337	Sequence 14337, A	948	167	4	US-10-312-373-287	Sequence 287, App		
876	35	54.7	799	5	US-10-450-763-47601	Sequence 47601, A	949	168	6	US-11-037-143-32933	Sequence 32933, A		
877	35	54.7	810	4	US-10-416-330-30	Sequence 30, Appl	950	170	4	US-10-425-114-55467	Sequence 55467, A		
878	35	54.7	823	4	US-10-437-963-140690	Sequence 140690, A	951	174	4	US-10-425-115-364582	Sequence 364582, A		
879	35	54.7	835	4	US-10-437-963-140691	Sequence 140691, A	952	178	4	US-10-108-260A-3612	Sequence 3612, Ap		
880	35	54.7	854	4	US-10-425-115-239420	Sequence 239420, A	953	180	4	US-10-424-599-276010	Sequence 276010, A		
881	35	54.7	860	4	US-10-425-114-63308	Sequence 63308, A	954	180	4	US-10-425-114-39912	Sequence 39912, A		
882	35	54.7	860	5	US-10-450-763-32496	Sequence 32496, A	955	182	4	US-10-259-194A-148	Sequence 148, App		
883	35	54.7	873	4	US-10-369-493-11332	Sequence 11332, A	956	183	4	US-10-437-963-153842	Sequence 153842, A		
884	35	54.7	905	5	US-10-691-384-15	Sequence 15, Appl1	957	185	3	US-09-815-242-11768	Sequence 11768, A		
885	35	54.7	925	4	US-10-369-493-284	Sequence 284, App	958	185	4	US-10-289-762-184	Sequence 184, App		
886	35	54.7	930	4	US-10-282-122A-70655	Sequence 70655, A	959	189	5	US-10-739-930-10649	Sequence 10649, A		
887	35	54.7	951	6	US-11-097-143-3891	Sequence 3891, Ap	960	190	4	US-10-757-701-41351	Sequence 41351, A		
888	35	54.7	990	4	US-10-380-492A-10	Sequence 10, Appl1	961	191	4	US-10-087-192-1746	Sequence 1746, Ap		
889	35	54.7	995	4	US-10-369-493-1593	Sequence 1593, Ap	962	194	4	US-10-425-115-285817	Sequence 285817, A		
890	35	54.7	1007	5	US-10-691-384-2	Sequence 2, Appl1	963	195	4	US-10-437-963-118541	Sequence 118541, A		
891	35	54.7	1049	4	US-10-282-122A-58029	Sequence 58029, A	964	201	6	US-11-097-143-38715	Sequence 38715, A		
892	35	54.7	1054	3	US-09-798-042-87	Sequence 87, Appl	965	205	4	US-10-994-726-628	Sequence 628, App		
893	35	54.7	1054	3	US-09-953-108-87	Sequence 87, Appl	966	208	4	US-10-322-281-114	Sequence 114, App		
894	35	54.7	1111	3	US-10-450-763-38728	Sequence 38728, A	967	210	4	US-10-767-701-37120	Sequence 37120, A		
895	35	54.7	1133	6	US-11-097-143-13251	Sequence 13251, A	968	210	5	US-10-994-726-688	Sequence 688, App		
896	35	54.7	1202	4	US-10-437-963-130757	Sequence 130757, A	969	211	5	US-10-732-923-8790	Sequence 8790, App		
897	35	54.7	1447	5	US-10-733-923-12928	Sequence 12928, A	970	212	4	US-10-229-567-1	Sequence 1, Appl1		
898	35	54.7	1786	3	US-09-742-096-3	Sequence 3, Appl1	971	214	4	US-10-369-493-11252	Sequence 11252, A		
899	35	54.7	1847	4	US-10-415-253-2	Sequence 2, Appl1	972	219	6	US-10-254-995-8	Sequence 8, Appl1		
900	35	54.7	1847	4	US-10-369-493-1075	Sequence 1075, Ap	973	219	6	US-11-052-080-8	Sequence 8, Appl1		
901	35	54.7	2001	4	US-10-437-963-182972	Sequence 182972, A	974	221	5	US-10-484-703-37	Sequence 37, Appl		
902	35	54.7	2093	4	US-10-032-585-7665	Sequence 7665, Ap	975	222	4	US-10-282-122A-54435	Sequence 54435, A		
903	35	54.7	3433	4	US-10-408-765A-731	Sequence 731, App	976	223	4	US-10-424-599-212286	Sequence 212286, A		

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577 34 53.1 228 5 US-10-994-726-627 Sequence 627, App
578 34 53.1 230 5 US-10-994-726-687 Sequence 687, App
579 34 53.1 234 5 US-10-238-075-678 Sequence 678, App
580 34 53.1 237 4 US-10-767-701-36521 Sequence 36521, A
581 34 53.1 245 4 US-10-282-122A-70613 Sequence 70613, A
582 34 53.1 247 4 US-10-114-270-68 Sequence 68, Appl
583 34 53.1 247 4 US-10-114-270-68 Sequence 70, Appl
584 34 53.1 249 5 US-10-617-320-4031 Sequence 4031, Ap
585 34 53.1 250 4 US-10-424-599-246825 Sequence 246825,
586 34 53.1 251 4 US-10-254-995-4 Sequence 4, Appl1
587 34 53.1 251 6 US-11-062-080-4 Sequence 4, Appl1
588 34 53.1 252 4 US-10-724-972A-4113 Sequence 4113, Ap
589 34 53.1 254 3 US-09-056-019-9 Sequence 9, Appl1
590 34 53.1 254 4 US-10-751-702-9 Sequence 9, Appl1
591 34 53.1 254 6 US-11-032-644-9 Sequence 9, Appl1
592 34 53.1 266 4 US-10-051-986-7 Sequence 7, Appl1
593 34 53.1 272 4 US-10-282-122A-71981 Sequence 71981, A
594 34 53.1 273 4 US-10-424-599-225203 Sequence 225203,
595 34 53.1 274 3 US-09-738-626-6076 Sequence 6076, Ap
596 34 53.1 275 4 US-09-815-242-13441 Sequence 13441, A
597 34 53.1 275 4 US-10-282-122A-74239 Sequence 74239, A
598 34 53.1 275 4 US-10-474-776-743 Sequence 743, Appl
599 34 53.1 275 5 US-10-472-928-4662 Sequence 4662, Ap
1000 34 53.1 276 3 US-09-925-300-1392 Sequence 1392, Ap

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ALIGNMENTS

RESULT 1
US-10-706-275-1

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; Sequence 1, Application US/10706275
; Publication No. US2005002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael F.
; APPLICANT: Batzloff, Michael R.
; APPLICANT: Leanderson, Tomas B.
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; PRIOR FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: antigenic peptide sequence derivative of S. pyogenes
US-10-706-275-1

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Query Match 100.0%; Score 64; DB 5; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0026;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ASREAKKQVEKALE 14
Db 1 ASREAKKQVEKALE 14

RESULT 2
US-10-044-034-22
; Sequence 22, Application US/10044034
; Publication No. US20020169264A1

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; GENERAL INFORMATION:
; APPLICANT: JACKSON, DAVID C.
; APPLICANT: O'BRIEN-SIMPSON, NEIL M.
; APPLICANT: BROWN, LORENA E.
; APPLICANT: BDE, NICHOLAS J.
; APPLICANT: BRANDT, EVELYN R.
; APPLICANT: GOOD, MICHAEL F.
; TITLE OF INVENTION: POLYMERS INCORPORATING PEPTIDES
; FILE REFERENCE: FBRC:006
; CURRENT APPLICATION NUMBER: US/10/044,034
; PRIOR FILING DATE: 2002-01-11
; PRIOR APPLICATION NUMBER: P05071
; PRIOR FILING DATE: 1997-02-11
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 22
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptides
US-10-044-034-22

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Query Match 100.0%; Score 64; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0037;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ASREAKKQVEKALE 14
Db 7 ASREAKKQVEKALE 20

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RESULT 3
US-10-706-275-5
; Sequence 5, Application US/10706275
; Publication No. US2005002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael F.
; APPLICANT: Batzloff, Michael R.
; APPLICANT: Leanderson, Tomas B.
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; PRIOR FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; PRIOR FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: antigenic peptide sequence p145
US-10-706-275-5

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Query Match 100.0%; Score 64; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0037;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ASREAKKQVEKALE 14
Db 7 ASREAKKQVEKALE 20

RESULT 4
US-10-706-275-2
; Sequence 2, Application US/10706275
; Publication No. US2005002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael F.
; APPLICANT: Batzloff, Michael R.
; APPLICANT: Leanderson, Tomas B.
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; PRIOR FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: antigenic peptide derivative of S. pyogenes with flanking sequence
US-10-706-275-2

Query Match 100.0%; Score 64; DB 5; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.0055;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ASREAKKQVEKALE 14
Db 9 ASREAKKQVEKALE 22

RESULT 5
US-10-706-275-15
; Sequence 15, Application US/10706275
; Publication No. US2005002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael F.
; APPLICANT: Batzloff, Michael R.
; APPLICANT: Leanderson, Tomas B.
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; PRIOR FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-15

Query Match 100.0%; Score 64; DB 5; Length 29;

Best Local Similarity 100.0%; Pred. No. 0.0055;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ASREAKKQVEKALE 14
Db 9 ASREAKKQVEKALE 22

RESULT 6
US-10-141-627-4
; Sequence 4, Application US/10141627
; Publication No. US20020176863A1
; GENERAL INFORMATION:
; APPLICANT: Dale, James B.
; TITLE OF INVENTION: ANTIGEN OF HYBRID M PROTEIN AND CARRIER
; TITLE OF INVENTION: FOR GROUP A STREPTOCOCCAL VACCINE
; FILE REFERENCE: 481112.404C3
; CURRENT APPLICATION NUMBER: US/10/141,627
; CURRENT FILING DATE: 2002-05-07
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 254
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: An antigen of M5 and a carrier of the
; OTHER INFORMATION: COOH-terminal portion of M5
US-10-141-627-4

Query Match 100.0%; Score 64; DB 4; Length 254;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ASREAKKQVEKALE 14
Db 105 ASREAKKQVEKALE 118

RESULT 7
US-10-141-627-6
; Sequence 6, Application US/10141627
; Publication No. US20020176863A1
; GENERAL INFORMATION:
; APPLICANT: Dale, James B.
; TITLE OF INVENTION: ANTIGEN OF HYBRID M PROTEIN AND CARRIER
; TITLE OF INVENTION: FOR GROUP A STREPTOCOCCAL VACCINE
; FILE REFERENCE: 481112.404C3
; CURRENT APPLICATION NUMBER: US/10/141,627
; CURRENT FILING DATE: 2002-05-07
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 284
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: An antigen of three fragments of M5 and a carrier
; OTHER INFORMATION: of the COOH-terminal portion of M5
US-10-141-627-6

Query Match 100.0%; Score 64; DB 4; Length 284;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ASREAKKQVEKALE 14
Db 135 ASREAKKQVEKALE 148

RESULT 8
US-08-325-278-6
; Sequence 6, Application US/08325278

Publication No. US20030027283A1
GENERAL INFORMATION:
APPLICANT: Bjvick, Lars
APPLICANT: Sjvbring, Ulf
TITLE OF INVENTION: PROTEIN L AND HYBRID PROTEINS THEREOF
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESSES:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/325,278
FILING DATE: 26-OCT-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: McMasters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 450023.401
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 443 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-325-278-6

Query Match 100.0%; Score 64; DB 2; Length 443;
Best Local Similarity 100.0%; Pred. No. 0.093;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEKALE 14
DB 294 ASREAKKQVEKALE 307

RESULT 9
US-10-474-792-672
Sequence 672, Application US/10474792
Publication No. US20040236072A1
GENERAL INFORMATION:
APPLICANT: Olmsted, Stephen
APPLICANT: Zagursky, Robert
APPLICANT: Nickbarg, Elliot
APPLICANT: Winter, Louie
TITLE OF INVENTION: SURFACE PROTEINS OF STREPTOCOCCUS PYOGENES
FILE REFERENCE: AM 100399
CURRENT APPLICATION NUMBER: US/10/474,792
CURRENT FILING DATE: 2003-10-14
NUMBER OF SEQ ID NOS: 674
SOFTWARE: PatentIn version 3.0
SEQ ID NO 672
LENGTH: 553
TYPE: PRT
ORGANISM: Streptococcus pyogenes
US-10-474-792-672

Query Match 100.0%; Score 64; DB 5; Length 553;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEKALE 14
DB 14 ASREAKKQVEKALE 14

DB 404 ASREAKKQVEKALE 417

RESULT 10
US-10-732-923-3295
Sequence 3295, Application US/10732923
Publication No. US20050108791A1
GENERAL INFORMATION:
APPLICANT: Edgerton, Michael D
TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
FILE REFERENCE: 38-15(52796)C
CURRENT APPLICATION NUMBER: US/10/732,923
CURRENT FILING DATE: 2003-12-10
PRIOR APPLICATION NUMBER: 10/310,154
PRIOR FILING DATE: 2002-12-04
NUMBER OF SEQ ID NOS: 24149
SEQ ID NO 3295
LENGTH: 558
TYPE: PRT
ORGANISM: Streptococcus pyogenes
US-10-732-923-3295

Query Match 100.0%; Score 64; DB 5; Length 558;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEKALE 14
DB 409 ASREAKKQVEKALE 422

RESULT 11
US-10-706-275-12
Sequence 12, Application US/10706275
Publication No. US2005002956A1
GENERAL INFORMATION:
APPLICANT: ID Biomedical Corporation of Quebec
APPLICANT: The Council of the Queensland Institute of Medical Research
APPLICANT: Lowell, George H.
APPLICANT: Burt, David S.
APPLICANT: White, Gregory L.
APPLICANT: Good, Michael F.
APPLICANT: Batzloff, Michael R.
APPLICANT: Leanderson, Tomas B.
TITLE OF INVENTION: Vaccine
FILE REFERENCE: 021989-000710US
CURRENT APPLICATION NUMBER: US/10/706,275
CURRENT FILING DATE: 2003-11-13
PRIOR APPLICATION NUMBER: US 60/426,409
PRIOR FILING DATE: 2002-11-15
PRIOR APPLICATION NUMBER: AU 2002302132
PRIOR FILING DATE: 2002-11-15
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn version 3.1
SEQ ID NO 12
LENGTH: 28
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-12

Query Match 89.1%; Score 57; DB 5; Length 28;
Best Local Similarity 85.7%; Pred. No. 0.065;
Matches 12; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEKALE 14
DB 9 ASREAKKQVEKAVK 22

RESULT 12
US-10-706-275-13

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Sequence 13, Application US/10706275
; Publication No. US2005002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael F.
; APPLICANT: Batzloff, Michael R.
; APPLICANT: Leanderson, Tomas B.
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; PRIOR FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; PRIOR FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-13
```

```
Query Match      87.5%; Score 56; DB 5; Length 28;
Best Local Similarity 92.3%; Pred. No. 0.092;
Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      2 SREAKQVEKALE 14
        |||||
Db      9 SREAKQVEKALK 21
```

```
RESULT 13
US-10-706-275-14
; Sequence 14, Application US/10706275
; Publication No. US2005002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael F.
; APPLICANT: Batzloff, Michael R.
; APPLICANT: Leanderson, Tomas B.
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; PRIOR FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; PRIOR FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-14
```

```
Query Match      87.5%; Score 56; DB 5; Length 28;
Best Local Similarity 100.0%; Pred. No. 0.092;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      3 REAKQVEKALE 14
        |||||
Db      9 REAKQVEKALE 20
```

```
RESULT 14
US-10-706-275-11
; Sequence 11, Application US/10706275
; Publication No. US2005002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael F.
; APPLICANT: Batzloff, Michael R.
; APPLICANT: Leanderson, Tomas B.
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; PRIOR FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; PRIOR FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-11
```

```
Query Match      81.2%; Score 52; DB 5; Length 28;
Best Local Similarity 78.6%; Pred. No. 0.39;
Matches 11; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      1 ASREAKQVEKALE 14
        |||||
Db      10 ASREAKQVEKVK 23
```

```
RESULT 15
US-10-706-275-10
; Sequence 10, Application US/10706275
; Publication No. US2005002956A1
; GENERAL INFORMATION:
; APPLICANT: ID Biomedical Corporation of Quebec
; APPLICANT: The Council of the Queensland Institute of Medical Research
; APPLICANT: Lowell, George H.
; APPLICANT: Burt, David S.
; APPLICANT: White, Gregory L.
; APPLICANT: Good, Michael F.
; APPLICANT: Batzloff, Michael R.
; APPLICANT: Leanderson, Tomas B.
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: 021989-000710US
; CURRENT APPLICATION NUMBER: US/10/706,275
; PRIOR FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US 60/426,409
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: AU 2002302132
; PRIOR FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 10
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
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OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-10

Query Match 74.2%; Score 47.5; DB 5; Length 28;
Best Local Similarity 76.5%; Pred. No. 1.9;
Matches 13; Conservative 0; Mismatches 1; Indels 3; Gaps 1;

OY 1 ASREAKQVE---KALE 14
Db 11 ASREAKQVEDKVKQLB 27

RESULT 16
US-10-369-493-5342
Sequence 5342, Application US/10369493
Publication No. US2003023675A1

GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng

TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
FILF REFERENCE: 38-10(52052)B
CURRENT APPLICATION NUMBER: US/10/369,493

PRIOR FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 5342
LENGTH: 546
TYPE: PRT
ORGANISM: Caenorhabditis elegans
US-10-369-493-5342

Query Match 70.3%; Score 45; DB 4; Length 546;
Best Local Similarity 75.0%; Pred. No. 1e+02;
Matches 9; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 3 REAKQVEKALE 14
Db 406 REKKQIEKELB 417

RESULT 17
US-10-706-275-9
Sequence 9, Application US/10706275
Publication No. US20050002956A1

GENERAL INFORMATION:
APPLICANT: ID Biomedical Corporation of Quebec
APPLICANT: The Council of the Queensland Institute of Medical Research
APPLICANT: Lowell, George H.
APPLICANT: Burt, David S.
APPLICANT: White, Gregory L.
APPLICANT: Good, Michael F.
APPLICANT: Batzloff, Michael R.
APPLICANT: Leanderson, Tomas B.
TITLE OF INVENTION: Vaccine
FILE REFERENCE: 021989-000710US
CURRENT APPLICATION NUMBER: US/10/706,275

PRIOR FILING DATE: 2003-11-13
PRIOR APPLICATION NUMBER: US 60/426,409
PRIOR FILING DATE: 2002-11-15
PRIOR APPLICATION NUMBER: AU 2002302132
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn version 3.1
SEQ ID NO 9
LENGTH: 28
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:

OTHER INFORMATION: antigenic peptide sequence derivative of p145 base
US-10-706-275-9

Query Match 69.5%; Score 44.5; DB 5; Length 28;
Best Local Similarity 70.6%; Pred. No. 5.7;
Matches 12; Conservative 1; Mismatches 1; Indels 3; Gaps 1;

OY 1 ASREAKQVE---KALE 14
Db 12 ASREAKQVQDKVKQLB 28

RESULT 18
US-09-309-196-83
Sequence 83, Application US/09309196
Publication No. US20030008380A1

GENERAL INFORMATION:
APPLICANT: FOMLAKES, Dana M.
APPLICANT: BROACH, Jim
APPLICANT: MANFREDI, John
APPLICANT: KLEIN, Christine
APPLICANT: MURPHY, Andrew J.
APPLICANT: PAUL, Jeremy
APPLICANT: TRUEBART, Joshua

TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE
NUMBER OF SEQUENCES: 119
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/309,196
FILING DATE:

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/322,137
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/190,328
FILING DATE: 31-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/041,431
FILING DATE: 31-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: COOPER, Iyer P.
REGISTRATION NUMBER: 28,005
REFERENCE/DOCKET NUMBER: FOMLAKES-2C
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633

INFORMATION FOR SEQ ID NO: 83:
SEQUENCE CHARACTERISTICS:
LENGTH: 65 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-309-196-83

Query Match 65.6%; Score 42; DB 3; Length 65;
Best Local Similarity 57.1%; Pred. No. 33;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Query Match 65.6%; Score 42; DB 3; Length 65;
Best Local Similarity 57.1%; Pred. No. 33;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Query Match 65.6%; Score 42; DB 3; Length 65;
Best Local Similarity 57.1%; Pred. No. 33;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Query Match 65.6%; Score 42; DB 3; Length 65;
Best Local Similarity 57.1%; Pred. No. 33;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Query Match 65.6%; Score 42; DB 3; Length 65;
Best Local Similarity 57.1%; Pred. No. 33;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Query Match 65.6%; Score 42; DB 3; Length 65;
Best Local Similarity 57.1%; Pred. No. 33;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Query Match 65.6%; Score 42; DB 3; Length 65;
Best Local Similarity 57.1%; Pred. No. 33;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Query Match 65.6%; Score 42; DB 3; Length 65;
Best Local Similarity 57.1%; Pred. No. 33;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Query Match 65.6%; Score 42; DB 3; Length 65;
Best Local Similarity 57.1%; Pred. No. 33;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Query Match 65.6%; Score 42; DB 3; Length 65;
Best Local Similarity 57.1%; Pred. No. 33;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 ASREAKQVEKALE 14
| | | | | : | | | :
Db 18 AOREANKKIEKOLQ 31

RESULT 19
US-10-263-341-83

; Sequence 83, Application US/10263341
; Publication No. US20030203417A1
; GENERAL INFORMATION:

APPLICANT: FOMLKEs, Dana M.

BROACH, Jim

MANFREDI, John

KLEIN, Christine

MURPHY, Andrew J.

PAUL, Jeremy

TRUEHEART, Joshua

TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE

PHEROMONE SYSTEM PROTEIN SURROGATES, AND USES THEREFOR

NUMBER OF SEQUENCES: 119

CORRESPONDENCE ADDRESS:

ADDRESS: BROWDY AND NEIMARK

STREET: 419 Seventh Street, N.W., Suite 300

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20004

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/263,341

FILING DATE: 01-Oct-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/322,137

FILING DATE: 13-Oct-1994

APPLICATION NUMBER: US 08/309,313

FILING DATE: 20-Sep-1994

APPLICATION NUMBER: US 08/190,328

FILING DATE: 31-Jan-1994

APPLICATION NUMBER: US 08/041,431

FILING DATE: 31-Mar-1993

ATTORNEY/AGENT INFORMATION:

NAME: COOPER, Iver P.

REGISTRATION NUMBER: 28,005

REFERENCE/DOCKET NUMBER: FOMLKEs=2C

TELECOMMUNICATION INFORMATION:

TELEPHONE: 202-628-5197

TELEFAX: 202-737-3528

TELEX: 248633

INFORMATION FOR SEQ ID NO: 83:

SEQUENCE CHARACTERISTICS:

LENGTH: 65 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 83:

US-10-263-341-83

Query Match 65.6%; Score 42; DB 4; Length 65;
Best Local Similarity 57.1%; Pred. No. 33;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

RESULT 20

US-10-600-003-83
; Sequence 83, Application US/10600003
; Publication No. US20040197840A1
; GENERAL INFORMATION:

APPLICANT: FOMLKEs, Dana M.

BROACH, Jim

MANFREDI, John

KLEIN, Christine

MURPHY, Andrew J.

PAUL, Jeremy

TRUEHEART, Joshua

TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE

PHEROMONE SYSTEM PROTEIN SURROGATES, AND USES THEREFOR

NUMBER OF SEQUENCES: 119

CORRESPONDENCE ADDRESS:

ADDRESS: LAMIVE AND COCKFIELD

STREET: 60 State Street, Suite 510

CITY: Boston

STATE: MA

COUNTRY: USA

ZIP: 02109

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/600,003

FILING DATE: 18-Oct-2003

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/286,166

FILING DATE: 05-Apr-1999

APPLICATION NUMBER: US 08/461,383

FILING DATE: 05-Jun-1995

APPLICATION NUMBER: US 08/322,137

FILING DATE: 13-Oct-1994

APPLICATION NUMBER: US 08/309,313

FILING DATE: 20-Sep-1994

APPLICATION NUMBER: US 08/190,328

FILING DATE: 31-Jan-1994

APPLICATION NUMBER: US 08/041,431

FILING DATE: 31-Mar-1993

ATTORNEY/AGENT INFORMATION:

NAME: Vincent, Matthew P

REGISTRATION NUMBER: 36,709

REFERENCE/DOCKET NUMBER: CPI-012CP4B

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-227-7400

TELEFAX: 617-227-5941

TELEX: 752806

INFORMATION FOR SEQ ID NO: 83:

SEQUENCE CHARACTERISTICS:

LENGTH: 65 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 83:

US-10-600-003-83

Query Match 65.6%; Score 42; DB 4; Length 65;
Best Local Similarity 57.1%; Pred. No. 33;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

RESULT 21

US-10-424-599-223904
; Sequence 223904, Application US/10424599

Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 223904
LENGTH: 86
TYPE: PRT
ORGANISM: Glycine max
FEATURES:
NAME/KEY: unsure
LOCATION: (1)..(86)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_44214C.1 pep
US-10-424-599-223904

Query Match 65.6%; Score 42; DB 4; Length 86;
Best Local Similarity 57.1%; Pred. No. 45;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Cy 1 ASREAKKQVEKALE 14
Db 6 AIREANKKIKKQLO 19

RESULT 22
US-10-732-923-7618
Sequence 7618, Application US/10732923
Publication No. US20050108791A1
GENERAL INFORMATION:
APPLICANT: Edgerton, Michael D
TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
FILE REFERENCE: 38-15(52796)C
CURRENT APPLICATION NUMBER: US/10/732,923
CURRENT FILING DATE: 2003-12-10
PRIOR APPLICATION NUMBER: 10/310,154
PRIOR FILING DATE: 2002-12-04
NUMBER OF SEQ ID NOS: 24149
SEQ ID NO 7618
LENGTH: 377
TYPE: PRT
ORGANISM: Mus musculus
US-10-732-923-7618

Query Match 65.6%; Score 42; DB 5; Length 377;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Cy 1 ASREAKKQVEKALE 14
Db 16 AIREANKKIKKQLO 29

RESULT 23
US-09-952-680A-15
Sequence 15, Application US/09952680A
Publication No. US20030087239A1
GENERAL INFORMATION:
APPLICANT: Stanton, Mary
APPLICANT: Epstein, David
APPLICANT: Hamaguchi, No. US20030087239A1uko
TITLE OF INVENTION: Target Activated Biosensor and Methods of Using Same
FILE REFERENCE: 23239-501
CURRENT APPLICATION NUMBER: US/09/952,680A
CURRENT FILING DATE: 2001-09-13

PRIOR APPLICATION NUMBER: 60/232,454
PRIOR FILING DATE: 2000-09-13
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 15
LENGTH: 379
TYPE: PRT
ORGANISM: Homo sapiens
US-09-952-680A-15

Query Match 65.6%; Score 42; DB 3; Length 379;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Cy 1 ASREAKKQVEKALE 14
Db 18 AIREANKKIKKQLO 31

RESULT 24
US-10-408-765A-105
Sequence 105, Application US/10408765A
Publication No. US20040101874A1
GENERAL INFORMATION:
APPLICANT: Ghosh, Soumitra S.
APPLICANT: Fahy, Boia D.
APPLICANT: Zhang, Bing
APPLICANT: Gibson, Bradford W.
APPLICANT: Taylor, Steven W.
APPLICANT: Glenn, Gary M.
APPLICANT: Warnock, Dale E.
TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
FILE REFERENCE: 660088.465
CURRENT APPLICATION NUMBER: US/10/408,765A
CURRENT FILING DATE: 2003-04-04
NUMBER OF SEQ ID NOS: 3077
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 105
LENGTH: 379
TYPE: PRT
ORGANISM: Homo sapiens
US-10-408-765A-105

Query Match 65.6%; Score 42; DB 4; Length 379;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Cy 1 ASREAKKQVEKALE 14
Db 18 AIREANKKIKKQLO 31

RESULT 25
US-10-215-982-15
Sequence 15, Application US/10215982
Publication No. US20040219523A1
GENERAL INFORMATION:
APPLICANT: Stanton, Martin
APPLICANT: Epstein, David
APPLICANT: Hamaguchi, Nobuko
APPLICANT: Kurtz, Markus
APPLICANT: Keefe, Tony
APPLICANT: Wilson, Charles
APPLICANT: Grate, Dilara
APPLICANT: Marshall, Kristin
APPLICANT: McCauley, Thomas
APPLICANT: Kurtz, Jeffrey
TITLE OF INVENTION: NUCLEIC ACID SENSOR MOLECULES AND METHODS OF USING SAME
FILE REFERENCE: 23239-501 CIP
CURRENT APPLICATION NUMBER: US/10/215,982
CURRENT FILING DATE: 2002-08-09
PRIOR APPLICATION NUMBER: 60/232,454

; PRIOR FILING DATE: 2000-09-13
; PRIOR APPLICATION NUMBER: 09/952,680
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/311,378
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/313,932
; PRIOR FILING DATE: 2001-08-21
; PRIOR APPLICATION NUMBER: 60/338,186
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: 60/349,959
; PRIOR FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: 60/364,486
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/376,744
; PRIOR FILING DATE: 2002-05-01
; PRIOR APPLICATION NUMBER: 60/367,991
; PRIOR FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER: 60/369,887
; PRIOR FILING DATE: 2002-04-04
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 372
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 379
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-215-982-15

Query Match 65.6%; Score 42; DB 5; Length 379;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy 1 ASREAKKOVERKALE 14
| | | | | : : : | | | :
Db 18 AOREANKKIKKOLQ 31

RESULT 26
US-10-732-923-7963
; Sequence 7963, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 7963
; LENGTH: 379
; TYPE: PRT
; ORGANISM: Xenopus laevis
US-10-732-923-7963

Query Match 65.6%; Score 42; DB 5; Length 379;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy 1 ASREAKKOVERKALE 14
| | | | | : : : | | | :
Db 18 AOREANKKIKKOLQ 31

RESULT 27
US-10-732-923-8015
; Sequence 8015, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C

; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8015
; LENGTH: 379
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-732-923-8015

Query Match 65.6%; Score 42; DB 5; Length 379;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy 1 ASREAKKOVERKALE 14
| | | | | : : : | | | :
Db 18 AOREANKKIKKOLQ 31

RESULT 28
US-09-952-680A-16
; Sequence 16, Application US/09952680A
; Publication No. US20030087239A1
; GENERAL INFORMATION:
; APPLICANT: Stanton, Mary
; APPLICANT: Epstein, David
; TITLE OF INVENTION: Target Activated Biosensor and Methods of Using Same
; FILE REFERENCE: 23239-501
; CURRENT APPLICATION NUMBER: US/09/952,680A
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/232,454
; PRIOR FILING DATE: 2000-09-13
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-952-680A-16

Query Match 65.6%; Score 42; DB 3; Length 380;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy 1 ASREAKKOVERKALE 14
| | | | | : : : | | | :
Db 18 AOREANKKIKKOLQ 31

RESULT 29
US-10-215-982-16
; Sequence 16, Application US/10215982
; Publication No. US20040219523A1
; GENERAL INFORMATION:
; APPLICANT: Stanton, Martin
; APPLICANT: Epstein, David
; APPLICANT: Hamaguchi, Nobuko
; APPLICANT: Kurz, Markus
; APPLICANT: Keefe, Tony
; APPLICANT: Wilson, Charles
; APPLICANT: Grate, Dylara
; APPLICANT: Marshall, Kristin
; APPLICANT: McCauley, Thomas
; APPLICANT: Kurz, Jeffrey
; TITLE OF INVENTION: NUCLEIC ACID SENSOR MOLECULES AND METHODS OF USING SAME
; FILE REFERENCE: 23239-501 CIP
; CURRENT APPLICATION NUMBER: US/10/215,982
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 60/232,454
; PRIOR FILING DATE: 2000-09-13
; PRIOR APPLICATION NUMBER: 09/952,680

```

; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/311,378
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/313,932
; PRIOR FILING DATE: 2001-08-21
; PRIOR APPLICATION NUMBER: 60/338,186
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: 60/349,959
; PRIOR FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: 60/364,486
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/376,744
; PRIOR FILING DATE: 2002-05-01
; PRIOR APPLICATION NUMBER: 60/367,991
; PRIOR FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER: 60/369,887
; PRIOR FILING DATE: 2002-04-04
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 372
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-215-982-16
```

```
Query Match      65.6%; Score 42; DB 5; Length 380;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy      1 ASREAKKOVERKALE 14
        |||||::|||:
Db      18 AOREANKKIEKOLQ 31
```

```
RESULT 30
US-10-732-923-8016
; Sequence 8016, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: 'TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8016
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-732-923-8016
```

```
Query Match      65.6%; Score 42; DB 5; Length 380;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy      1 ASREAKKOVERKALE 14
        |||||::|||:
Db      18 AOREANKKIEKOLQ 31
```

```
RESULT 31
US-10-732-923-8055
; Sequence 8055, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: 'TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
```

```

; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8055
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Bos taurus
US-10-732-923-8055
```

```
Query Match      65.6%; Score 42; DB 5; Length 380;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy      1 ASREAKKOVERKALE 14
        |||||::|||:
Db      18 AOREANKKIEKOLQ 31
```

```
RESULT 32
US-10-732-923-8022
; Sequence 8022, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: 'TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8022
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-732-923-8022
```

```
Query Match      65.6%; Score 42; DB 5; Length 384;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy      1 ASREAKKOVERKALE 14
        |||||::|||:
Db      7 AOREANKKIEKOLQ 20
```

```
RESULT 33
US-10-732-923-8054
; Sequence 8054, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: 'TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8054
; LENGTH: 388
; TYPE: PRT
; ORGANISM: Bos taurus
US-10-732-923-8054
```

```
Query Match      65.6%; Score 42; DB 5; Length 388;
Best Local Similarity 57.1%; Pred. No. 2.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy      1 ASREAKKOVERKALE 14
        |||||::|||:
Db      18 AOREANKKIEKOLQ 31
```

```
RESULT 34
US-09-952-680A-13
; Sequence 13, Application US/09952680A
; Publication No. US20030087239A1
; GENERAL INFORMATION:
; APPLICANT: Stanton, Marty
; APPLICANT: Epstein, David
; APPLICANT: Hamaguchi, No. US20030087239A1uko
; TITLE OF INVENTION: Target Activated Biosensor and Methods of Using Same
; FILE REFERENCE: 23339-501
; CURRENT APPLICATION NUMBER: US/09/952,680A
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/232,454
; PRIOR FILING DATE: 2000-09-13
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-952-680A-13

Query Match      65.6%; Score 42; DB 3; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy      1 ASREAAKQVERKALE 14
Db      18 AQRANKKIKERKQLQ 31

RESULT 35
US-09-963-131-192
; Sequence 192, Application US/09963131
; Publication No. US20030224460A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, Finn Skou
; APPLICANT: Sorensen, Annette Balle
; APPLICANT: Hernandez, Javier Martin
; APPLICANT: Nielsen, Anne Ahlmann
; APPLICANT: Moving, Helie
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR LYMPHOMA AND LEUKEMIA
; FILE REFERENCE: 529452000323
; CURRENT APPLICATION NUMBER: US/09/963,131
; CURRENT FILING DATE: 2001-09-24
; PRIOR APPLICATION NUMBER: US 09/668,644
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: US 09/905,390
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 09/905,491
; PRIOR FILING DATE: 2001-07-13
; NUMBER OF SEQ ID NOS: 215
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 192
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-963-131-192

Query Match      65.6%; Score 42; DB 3; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy      1 ASREAAKQVERKALE 14
Db      18 AQRANKKIKERKQLQ 31

RESULT 36
US-09-963-131-194
; Sequence 194, Application US/09963131
; Publication No. US20030224460A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Pedersen, Finn Skou
; APPLICANT: Sorensen, Annette Balle
; APPLICANT: Hernandez, Javier Martin
; APPLICANT: Nielsen, Anne Ahlmann
; APPLICANT: Moving, Helie
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR LYMPHOMA AND LEUKEMIA
; FILE REFERENCE: 529452000323
; CURRENT APPLICATION NUMBER: US/09/963,131
; CURRENT FILING DATE: 2001-09-24
; PRIOR APPLICATION NUMBER: US 09/668,644
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: US 09/905,390
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 09/905,491
; PRIOR FILING DATE: 2001-07-13
; NUMBER OF SEQ ID NOS: 215
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 194
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-963-131-194

Query Match      65.6%; Score 42; DB 3; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy      1 ASREAAKQVERKALE 14
Db      18 AQRANKKIKERKQLQ 31

RESULT 37
US-10-116-275-187
; Sequence 187, Application US/10116275
; Publication No. US20030211476A1
; GENERAL INFORMATION:
; APPLICANT: Elian Pharmaceutical Technology
; APPLICANT: O'Mahony, Daniel J.
; APPLICANT: Brayden, David
; APPLICANT: Byrne, Daragh
; APPLICANT: Lambkin, Imelda
; APPLICANT: Higgins, Lisa
; TITLE OF INVENTION: Genetic Analysis of Peyer's Patches and M Cells and Methods and
; FILE REFERENCE: E1067/20087
; CURRENT APPLICATION NUMBER: US/10/116,275
; CURRENT FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 187
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-116-275-187

Query Match      65.6%; Score 42; DB 4; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy      1 ASREAAKQVERKALE 14
Db      18 AQRANKKIKERKQLQ 31

RESULT 38
US-10-352-843-18
; Sequence 18, Application US/10352843
; Publication No. US20040014135A1
; GENERAL INFORMATION:
; APPLICANT: Moore, Lisa
; APPLICANT: Kindt, Rachel
```

APPLICANT: Kopczyński, Jenny
APPLICANT: Doderstein, Stephen
APPLICANT: Cockett, Mark
APPLICANT: Ramanathan, Chandra
APPLICANT: Lodge, Nicholas
APPLICANT: Fitzgerald, Kevin
APPLICANT: Stouch, Terry
TITLE OF INVENTION: MOLECULES THAT MODULATE G(Alpha)q ACTIVITY AND METHODS OF
FILE REFERENCE: 5624-277-999
CURRENT APPLICATION NUMBER: US/10/352,843
CURRENT FILING DATE: 2003-01-27
PRIOR APPLICATION NUMBER: US 60/352720
PRIOR FILING DATE: 2003-01-27
NUMBER OF SEQ ID NOS: 25
SOFTWARE: PatentIn version 3.2
SEQ ID NO 18
LENGTH: 394
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: G-protein of the invention
US-10-352-843-18

Query Match 65.6%; Score 42; DB 4; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ASREAKQVKEALE 14
Db 18 AGRANKIKKQLQ 31

RESULT 39
US-10-215-982-13
Sequence 13, Application US/10215982
Publication No. US20040219523A1
GENERAL INFORMATION:
APPLICANT: Stanton, Martin
APPLICANT: Epstein, David
APPLICANT: Hamauchi, Nobuko
APPLICANT: Kurtz, Markus
APPLICANT: Keefe, Tony
APPLICANT: Wilson, Charles
APPLICANT: Grate, Dilara
APPLICANT: Marshall, Kristin
APPLICANT: McCauley, Thomas
APPLICANT: Kurtz, Jeffrey
TITLE OF INVENTION: NUCLEIC ACID SENSOR MOLECULES AND METHODS OF USING SAME
FILE REFERENCE: 23239-501 CIP
CURRENT APPLICATION NUMBER: US/10/215,982
CURRENT FILING DATE: 2002-08-09
PRIOR APPLICATION NUMBER: 60/232,454
PRIOR FILING DATE: 2000-09-13
PRIOR APPLICATION NUMBER: 09/952,680
PRIOR FILING DATE: 2001-09-13
PRIOR APPLICATION NUMBER: 60/311,378
PRIOR FILING DATE: 2001-08-09
PRIOR APPLICATION NUMBER: 60/313,932
PRIOR FILING DATE: 2001-08-21
PRIOR APPLICATION NUMBER: 60/338,186
PRIOR FILING DATE: 2001-11-13
PRIOR APPLICATION NUMBER: 60/349,959
PRIOR FILING DATE: 2002-01-18
PRIOR APPLICATION NUMBER: 60/364,486
PRIOR FILING DATE: 2002-03-13
PRIOR APPLICATION NUMBER: 60/376,744
PRIOR FILING DATE: 2002-05-01
PRIOR APPLICATION NUMBER: 60/367,991
PRIOR FILING DATE: 2002-03-25
PRIOR APPLICATION NUMBER: 60/369,887
PRIOR FILING DATE: 2002-04-04
Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 372
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 394
TYPE: PRT
ORGANISM: Homo sapiens
US-10-215-982-13

Query Match 65.6%; Score 42; DB 5; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ASREAKQVKEALE 14
Db 18 AGRANKIKKQLQ 31

RESULT 40
US-10-684-422-194
Sequence 194, Application US/10684422
Publication No. US20040229233A1
GENERAL INFORMATION:
APPLICANT: YAMAMOTO, Shogo
TITLE OF INVENTION: Human housekeeping genes and human tissue-specific genes
FILE REFERENCE: 113991
CURRENT APPLICATION NUMBER: US/10/684,422
CURRENT FILING DATE: 2002-10-15
PRIOR APPLICATION NUMBER: US 60/418,614
PRIOR FILING DATE: 2002-10-16
NUMBER OF SEQ ID NOS: 332
SOFTWARE: PatentIn version 3.2
SEQ ID NO 194
LENGTH: 394
TYPE: PRT
ORGANISM: Homo sapiens
US-10-684-422-194

Query Match 65.6%; Score 42; DB 5; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ASREAKQVKEALE 14
Db 18 AGRANKIKKQLQ 31

RESULT 41
US-10-732-923-7589
Sequence 7589, Application US/10732923
Publication No. US20050108791A1
GENERAL INFORMATION:
APPLICANT: Edgerton, Michael D
TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
FILE REFERENCE: 38-15(52796)C
CURRENT APPLICATION NUMBER: US/10/732,923
CURRENT FILING DATE: 2003-12-10
PRIOR APPLICATION NUMBER: 10/310,154
PRIOR FILING DATE: 2002-12-04
NUMBER OF SEQ ID NOS: 24149
SEQ ID NO 7589
LENGTH: 394
TYPE: PRT
ORGANISM: *Cruciferales griseus*
US-10-732-923-7589

Query Match 65.6%; Score 42; DB 5; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ASREAKQVKEALE 14
Db 18 AGRANKIKKQLQ 31

```
RESULT 42
US-10-732-923-7592
; Sequence 7592, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgeton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 7592
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Cricetus longicaudatus
US-10-732-923-7592

Query Match      65.6%; Score 42; DB 5; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy      1 ASREAKQVEKALE 14
        |||||:|:|:|:|:|
Db      18 AGRANKKIKKQLQ 31

RESULT 43
US-10-732-923-7620
; Sequence 7620, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgeton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 7620
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-732-923-7620

Query Match      65.6%; Score 42; DB 5; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy      1 ASREAKQVEKALE 14
        |||||:|:|:|:|:|
Db      18 AGRANKKIKKQLQ 31

RESULT 44
US-10-732-923-7653
; Sequence 7653, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgeton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 7653
; LENGTH: 394
```

```
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-732-923-7653

Query Match      65.6%; Score 42; DB 5; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy      1 ASREAKQVEKALE 14
        |||||:|:~|:|:|:|
Db      18 AGRANKKIKKQLQ 31

RESULT 45
US-10-732-923-8017
; Sequence 8017, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgeton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8017
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-732-923-8017

Query Match      65.6%; Score 42; DB 5; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy      1 ASREAKQVEKALE 14
        |||||:|:~|:|:|:|
Db      18 AGRANKKIKKQLQ 31

RESULT 46
US-10-732-923-8019
; Sequence 8019, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgeton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8019
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-732-923-8019

Query Match      65.6%; Score 42; DB 5; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy      1 ASREAKQVEKALE 14
        |||||:|:~|:|:|:|
Db      18 AGRANKKIKKQLQ 31

RESULT 47
US-10-732-923-8058
; Sequence 8058, Application US/10732923
; Publication No. US20050108791A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 8058
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Bos taurus
US-10-732-923-8058

Query Match      65.6%; Score 42; DB 5; Length 394;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches      8; Conservative      3; Mismatches      3; Indels      0; Gaps      0;

QY      1 ASREAKKQVEKALE 14
Db      18 AQRANKKIKKQLQ 31

RESULT 48
US-09-952-680A-14
; Sequence 14, Application US/09952680A
; Publication No. US20030087239A1
; GENERAL INFORMATION:
; APPLICANT: Stanton, Marty
; APPLICANT: Epstein, David
; APPLICANT: Hamaguchi, No. US20030087239A1uko
; TITLE OF INVENTION: Target Activated Biosensor and Methods of Using Same
; FILE REFERENCE: 23239-501
; CURRENT APPLICATION NUMBER: US/09/952,680A
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/232,454
; PRIOR FILING DATE: 2000-09-13
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 395
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-952-680A-14

Query Match      65.6%; Score 42; DB 3; Length 395;
Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches      8; Conservative      3; Mismatches      3; Indels      0; Gaps      0;

QY      1 ASREAKKQVEKALE 14
Db      18 AQRANKKIKKQLQ 31

RESULT 49
US-10-215-982-14
; Sequence 14, Application US/10215982
; Publication No. US20040219523A1
; GENERAL INFORMATION:
; APPLICANT: Stanton, Martin
; APPLICANT: Epstein, David
; APPLICANT: Hamaguchi, Nobuko
; APPLICANT: Kurz, Markus
; APPLICANT: Keefe, Tony
; APPLICANT: Wilson, Charles
; APPLICANT: Grate, Dilara
; APPLICANT: Marshall, Kristin
; APPLICANT: McCauley, Thomas
; APPLICANT: Kurz, Jeffrey
; TITLE OF INVENTION: NUCLEIC ACID SENSOR MOLECULES AND METHODS OF USING SAME
; FILE REFERENCE: 23239-501 CIP
; CURRENT APPLICATION NUMBER: US/10/215,982
```

```

; CURRENT FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 60/232,454
; PRIOR FILING DATE: 2000-09-13
; PRIOR APPLICATION NUMBER: 09/952,680
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/311,378
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/313,932
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; PRIOR FILING DATE: 2002-03-25
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; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 372
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 395
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-215-982-14

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Best Local Similarity 57.1%; Pred. No. 2.2e+02;
Matches      8; Conservative      3; Mismatches      3; Indels      0; Gaps      0;

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Db      18 AQRANKKIKKQLQ 31

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; Sequence 8021, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
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; LENGTH: 395
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-732-923-8021

Query Match      65.6%; Score 42; DB 5; Length 395;
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OM protein - protein search, using SW model

Run on: March 28, 2006, 19:02:40 ; Search time 47 Seconds
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
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SUMMARIES

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138	34	53.1	110	2	US-09-536-784-102	Sequence 102, App	211	34	53.1	506	1	US-08-849-880A-5	Sequence 5, App11
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144	34	53.1	149	2	US-09-602-777A-258	Sequence 258, App	217	34	53.1	653	2	US-09-056-019C-8	Sequence 8, App11
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146	34	53.1	161	2	US-09-252-991A-22863	Sequence 22863, A	219	34	53.1	669	2	US-09-540-236-3666	Sequence 3666, Ap
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148	34	53.1	169	2	US-09-605-703B-444	Sequence 444, App	221	34	53.1	726	2	US-09-392-714-21	Sequence 21, App1
149	34	53.1	173	2	US-09-328-352-4759	Sequence 4759, App	222	34	53.1	721	2	US-09-949-016-9763	Sequence 9763, Ap
150	34	53.1	185	2	US-09-198-452A-184	Sequence 184, App	223	34	53.1	751	2	US-08-969-415-2	Sequence 2, App11
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169	34	53.1	254	2	US-09-056-019C-9	Sequence 9, App11	242	34	53.1	1449	2	US-09-303-5180-652	Sequence 652, App
170	34	53.1	261	2	US-09-583-110-4382	Sequence 4382, Ap	243	34	53.1	1457	2	US-09-673-896-4	Sequence 4, App11
171	34	53.1	261	2	US-09-248-796A-26725	Sequence 26725, A	244	34	53.1	1457	2	US-09-303-5180-650	Sequence 650, App
172	34	53.1	266	2	US-09-075-454-7	Sequence 75, App11	245	34	53.1	1739	2	US-09-949-016-9450	Sequence 9450, Ap
173	34	53.1	276	2	US-10-104-047-3850	Sequence 3850, Ap	246	34	53.1	1739	2	US-09-976-594-76	Sequence 76, App1

247	34	53.1	1739	2	US-09-538-092-824	Sequence 824, App	320	33	51.6	359	1	US-09-030-582-13	Sequence 13, Appl
248	34	53.1	1740	2	US-09-949-016-5860	Sequence 8860, Ap	321	33	51.6	359	2	US-08-875-540-15	Sequence 15, Appl
249	34	53.1	1836	2	US-09-949-016-7432	Sequence 7432, Ap	322	33	51.6	359	2	US-09-171-456-19	Sequence 19, Appl
250	34	53.1	4019	2	US-09-854-133-425	Sequence 425, App	323	33	51.6	359	2	US-09-473-634-45	Sequence 15, Appl
251	33.5	52.3	445	2	US-09-180-167A-4	Sequence 4, Appl1	324	33	51.6	352	2	US-09-949-016-8201	Sequence 8201, Ap
252	33.5	52.3	445	2	US-09-180-167A-5	Sequence 5, Appl1	325	33	51.6	375	2	US-09-710-279-2918	Sequence 2918, Ap
253	33.5	52.3	445	2	US-09-033-524B-4	Sequence 4, Appl1	326	33	51.6	375	2	US-09-248-796A-19270	Sequence 19270, A
254	33.5	52.3	445	2	US-09-033-524B-5	Sequence 5, Appl1	327	33	51.6	375	2	US-09-134-001C-3200	Sequence 3200, Ap
255	33.5	52.3	245	2	US-09-180-167A-33	Sequence 33, Appl	328	33	51.6	333	2	US-09-949-016-11526	Sequence 11526, A
256	33.5	52.3	245	2	US-09-033-524B-33	Sequence 33, Appl	329	33	51.6	339	2	US-09-270-767-48048	Sequence 48048, A
257	33.5	52.3	246	2	US-09-180-167A-1	Sequence 1, Appl1	330	33	51.6	401	1	US-08-596-111B-2	Sequence 2, Appl1
258	33.5	52.3	246	2	US-09-033-524B-1	Sequence 1, Appl1	331	33	51.6	401	2	US-09-434-774-10	Sequence 10, Appl
259	33	51.6	15	1	US-08-232-453A-61	Sequence 61, Appl1	332	33	51.6	402	2	US-09-248-796A-18910	Sequence 18910, A
260	33	51.6	17	1	US-08-232-453A-48	Sequence 48, Appl1	333	33	51.6	403	2	US-09-248-796A-18351	Sequence 18351, A
261	33	51.6	17	1	US-08-232-453A-50	Sequence 50, Appl	334	33	51.6	406	2	US-09-252-991A-19757	Sequence 19757, A
262	33	51.6	28	2	US-08-817-811-113	Sequence 13, Appl	335	33	51.6	411	2	US-10-101-464A-982	Sequence 982, App
263	33	51.6	28	2	US-08-488-551B-636	Sequence 636, App	336	33	51.6	416	2	US-09-710-279-1462	Sequence 1462, Ap
264	33	51.6	29	2	US-08-488-551B-637	Sequence 637, App	337	33	51.6	418	2	US-09-134-001C-4149	Sequence 4149, Ap
265	33	51.6	29	2	US-10-290-579A-114	Sequence 114, App	338	33	51.6	422	2	US-10-017-393-2	Sequence 2, Appl1
266	33	51.6	29	2	US-10-290-579A-115	Sequence 115, App	339	33	51.6	440	2	US-09-543-681A-5551	Sequence 5551, Ap
267	33	51.6	34	2	US-08-388-353-636	Sequence 636, App	340	33	51.6	443	2	US-09-248-796A-19547	Sequence 19547, A
268	33	51.6	47	2	US-09-270-767-50620	Sequence 60620, A	341	33	51.6	458	2	US-09-770-509-21	Sequence 21, Appl
269	33	51.6	57	2	US-09-270-767-58099	Sequence 58099, A	342	33	51.6	464	2	US-09-770-509-22	Sequence 22, Appl
270	33	51.6	64	2	US-09-107-433-4746	Sequence 4746, Ap	343	33	51.6	469	2	US-09-489-039A-13565	Sequence 13565, A
271	33	51.6	69	2	US-09-621-976-7385	Sequence 7385, Ap	344	33	51.6	483	1	US-08-194-338-7	Sequence 7, Appl1
272	33	51.6	90	2	US-09-252-991A-23078	Sequence 23078, A	345	33	51.6	484	2	US-09-763-620-8	Sequence 8, Appl1
273	33	51.6	96	1	US-08-922-182-6	Sequence 6, Appl1	346	33	51.6	484	2	US-09-248-796A-22920	Sequence 22920, A
274	33	51.6	96	1	US-08-919-953-6	Sequence 6, Appl1	347	33	51.6	488	2	US-09-393-858-14	Sequence 11588, A
275	33	51.6	101	2	US-09-475-515-86	Sequence 86, Appl1	348	33	51.6	503	2	US-09-393-858-14	Sequence 14, Appl
276	33	51.6	101	2	US-10-290-579A-219	Sequence 219, App	349	33	51.6	503	2	US-10-190-279-14	Sequence 14, Appl
277	33	51.6	101	2	US-10-290-579A-224	Sequence 224, App	350	33	51.6	504	2	US-09-134-001C-2980	Sequence 2980, Ap
278	33	51.6	102	2	US-09-475-515-90	Sequence 90, Appl	351	33	51.6	505	2	US-09-949-016-9779	Sequence 9779, Ap
279	33	51.6	115	2	US-09-732-210-429	Sequence 429, App	352	33	51.6	506	2	US-09-270-767-46607	Sequence 46607, A
280	33	51.6	118	2	US-08-301-162-10	Sequence 10, Appl	353	33	51.6	510	2	US-09-134-001C-4541	Sequence 4541, Ap
281	33	51.6	118	2	US-09-461-240-10	Sequence 10, Appl	354	33	51.6	519	2	US-09-949-016-7883	Sequence 7883, Ap
282	33	51.6	118	2	US-09-968-927-10	Sequence 10, Appl	355	33	51.6	526	2	US-08-895-590-5	Sequence 5, Appl1
283	33	51.6	123	2	US-09-471-276-1413	Sequence 1413, Ap	356	33	51.6	545	2	US-09-248-796A-14131	Sequence 14131, A
284	33	51.6	158	2	US-09-248-796A-14645	Sequence 14645, A	357	33	51.6	574	2	US-09-702-953B-4	Sequence 4, Appl1
285	33	51.6	175	2	US-09-222-939-5	Sequence 5, Appl1	358	33	51.6	582	2	US-09-976-594-733	Sequence 733, App
286	33	51.6	175	2	US-10-023-528-5	Sequence 5, Appl1	359	33	51.6	587	2	US-09-270-767-39651	Sequence 39651, A
287	33	51.6	175	2	US-09-583-110-3089	Sequence 3089, Ap	360	33	51.6	587	2	US-09-270-767-54868	Sequence 54868, A
288	33	51.6	175	2	US-10-423-330-5	Sequence 5, Appl1	361	33	51.6	627	2	US-09-702-953B-3	Sequence 3, Appl1
289	33	51.6	180	2	US-09-605-703B-1658	Sequence 1658, Ap	362	33	51.6	630	1	US-08-487-890A-113	Sequence 113, App
290	33	51.6	187	2	US-09-107-433-4170	Sequence 4170, Ap	363	33	51.6	630	1	US-08-478-435-113	Sequence 113, App
291	33	51.6	187	2	US-09-270-767-42786	Sequence 42786, A	364	33	51.6	630	1	US-08-337-483-113	Sequence 113, App
292	33	51.6	207	2	US-09-924-747-16	Sequence 16, Appl	365	33	51.6	630	1	US-08-478-373-113	Sequence 113, App
293	33	51.6	225	2	US-08-924-747-16	Sequence 16, Appl	366	33	51.6	630	2	US-08-474-671-113	Sequence 113, App
294	33	51.6	225	2	US-09-247-373B-16	Sequence 16, Appl	367	33	51.6	630	2	US-08-483-378-113	Sequence 113, App
295	33	51.6	225	2	US-09-296-715-16	Sequence 16, Appl	368	33	51.6	630	2	US-08-897-438-113	Sequence 113, App
296	33	51.6	225	2	US-09-702-953B-10	Sequence 10, Appl	369	33	51.6	630	2	US-08-637-654-113	Sequence 113, App
297	33	51.6	225	2	US-09-902-540-15645	Sequence 15645, A	370	33	51.6	640	2	US-08-649-518-113	Sequence 113, App
298	33	51.6	235	2	US-10-166-653-38	Sequence 38, Appl	371	33	51.6	647	2	US-09-949-016-11204	Sequence 11204, A
299	33	51.6	235	2	US-09-583-110-4757	Sequence 4757, App	372	33	51.6	655	2	US-09-702-953B-10	Sequence 2, Appl1
300	33	51.6	276	2	US-09-170-496D-8	Sequence 8, Appl1	373	33	51.6	655	2	US-09-949-016-6320	Sequence 6320, Ap
301	33	51.6	276	2	US-09-170-496D-8	Sequence 8, Appl1	374	33	51.6	656	2	US-09-107-532A-5205	Sequence 5205, Ap
302	33	51.6	285	2	US-09-107-433-4287	Sequence 4287, Ap	375	33	51.6	733	2	US-09-192-983-6	Sequence 6, Appl1
303	33	51.6	285	2	US-09-270-767-44284	Sequence 44284, A	376	33	51.6	858	2	US-09-134-000C-6355	Sequence 6355, Ap
304	33	51.6	319	2	US-09-270-767-44343	Sequence 44343, A	377	33	51.6	858	2	US-09-074-579-5	Sequence 5, Appl1
305	33	51.6	319	2	US-09-248-796A-15068	Sequence 15068, A	378	33	51.6	885	2	US-09-388-774-5	Sequence 5, Appl1
306	33	51.6	333	2	US-09-170-496D-168	Sequence 168, App	379	33	51.6	891	2	US-09-252-991A-31941	Sequence 31941, A
307	33	51.6	333	2	US-09-825-509-509	Sequence 509, App	380	33	51.6	920	2	US-09-763-620-35	Sequence 35, Appl
308	33	51.6	333	2	US-08-118-270-33	Sequence 33, Appl	381	33	51.6	937	1	US-08-253-155A-33	Sequence 33, Appl
309	33	51.6	337	1	US-08-118-270-33	Sequence 33, Appl	382	33	51.6	937	2	US-09-538-092-1092	Sequence 31, Appl
310	33	51.6	337	1	US-08-118-270-33	Sequence 33, Appl	383	33	51.6	937	2	US-09-949-002-374	Sequence 1092, Ap
311	33	51.6	337	1	US-08-118-270-33	Sequence 33, Appl	384	33	51.6	950	2	US-09-409-604-2	Sequence 374, App
312	33	51.6	342	2	US-09-605-703B-1526	Sequence 1526, Ap	385	33	51.6	959	2	US-09-538-092-1091	Sequence 2, Appl1
313	33	51.6	342	2	US-09-605-703B-1528	Sequence 1528, Ap	386	33	51.6	959	2	US-09-252-991A-16798	Sequence 16798, A
314	33	51.6	348	2	US-08-875-540-13	Sequence 13, Appl	387	33	51.6	1003	2	US-09-198-452A-17	Sequence 17, Appl
315	33	51.6	348	2	US-09-171-456-17	Sequence 17, Appl	388	33	51.6	1003	2	US-09-438-185A-8	Sequence 8, Appl1
316	33	51.6	348	2	US-09-473-634-13	Sequence 13, Appl	389	33	51.6	1038	2	US-09-081-385-151	Sequence 151, App
317	33	51.6	359	1	US-08-467-568-13	Sequence 13, Appl	390	33	51.6	1038	2	US-09-752-639-151	Sequence 151, App
318	33	51.6	359	1	US-08-746-485-4	Sequence 4, Appl1	391	33	51.6	1038	2	US-09-712-813-151	Sequence 151, App
319	33	51.6	359	1	US-08-103-170-2	Sequence 2, Appl1	392	33	51.6	1038	2	US-09-700-354A-151	Sequence 151, App

393	33	51.6	1049	2	US-08-772-270A-11	Sequence 11, Appl	466	32	50.0	225	2	US-09-296-715-10	Sequence 10, Appl
394	33	51.6	1187	1	US-08-320-559-28	Sequence 28, Appl	467	32	50.0	225	2	US-09-302-540-11468	Sequence 11468, A
395	33	51.6	1187	1	US-08-545-860D-28	Sequence 28, Appl	468	32	50.0	226	2	US-09-248-796A-16182	Sequence 16182, A
396	33	51.6	1187	4	PCT-US94-04496-28	Sequence 28, Appl	469	32	50.0	229	2	US-09-489-039A-10340	Sequence 10340, A
397	33	51.6	1192	2	US-09-902-540-14526	Sequence 14526, A	470	32	50.0	240	4	PCT-US93-00227-4	Sequence 4, Appl1
398	33	51.6	1210	1	US-08-330-559-26	Sequence 26, Appl	471	32	50.0	253	2	US-09-581-001B-8	Sequence 8, Appl1
399	33	51.6	1210	2	US-08-545-860D-26	Sequence 26, Appl	472	32	50.0	258	2	US-09-949-016-9714	Sequence 9714, Ap
400	33	51.6	1210	2	US-09-538-092-1179	Sequence 1179, Ap	473	32	50.0	259	2	US-09-370-838-58	Sequence 58, Appl1
401	33	51.6	1210	4	PCT-US94-04496-26	Sequence 26, Appl	474	32	50.0	259	2	US-09-854-133-58	Sequence 58, Appl1
402	33	51.6	1232	4	US-09-248-796A-14563	Sequence 14563, A	475	32	50.0	260	2	US-09-602-187A-192	Sequence 192, App
403	33	51.6	1244	4	PCT-US93-10500-2	Sequence 2, Appl1	476	32	50.0	260	2	US-09-605-703B-2394	Sequence 2394, Ap
404	33	51.6	1256	4	US-09-248-796A-18057	Sequence 18057, A	477	32	50.0	269	2	US-09-777-558-17	Sequence 17, App
405	33	51.6	1308	1	US-08-996-644-2	Sequence 2, Appl1	478	32	50.0	282	2	US-09-830-230A-612	Sequence 612, App
406	33	51.6	1308	2	US-09-352-552-2	Sequence 2, Appl1	479	32	50.0	283	2	US-09-424-378A-10	Sequence 10, Appl
407	33	51.6	1597	2	US-09-964-956-81	Sequence 41, Appl	480	32	50.0	286	2	US-09-830-230A-720	Sequence 720, App
408	33	51.6	1597	2	US-10-017-216-6	Sequence 6, Appl1	481	32	50.0	290	2	US-09-543-681A-7488	Sequence 7488, Ap
409	33	51.6	1641	2	US-09-964-956-40	Sequence 40, Appl	482	32	50.0	288	2	US-09-370-767-37644	Sequence 37644, A
410	33	51.6	1641	2	US-10-017-216-5	Sequence 5, Appl1	483	32	50.0	288	2	US-09-370-767-52861	Sequence 52861, A
411	33	51.6	1895	1	US-08-619-554-4	Sequence 4, Appl1	484	32	50.0	302	2	US-09-830-230A-611	Sequence 611, App
412	33	51.6	1895	2	US-09-487-558B-136	Sequence 136, App	485	32	50.0	307	2	US-08-506-296B-63	Sequence 63, Appl
413	33	51.6	1958	2	US-10-028-946-4	Sequence 4, Appl1	486	32	50.0	310	2	US-09-302-540-10755	Sequence 10755, A
414	33	51.6	2053	2	US-09-964-956-11	Sequence 11, Appl	487	32	50.0	315	2	US-09-830-230A-739	Sequence 719, App
415	33	51.6	2054	2	US-10-028-946-2	Sequence 2, Appl1	488	32	50.0	330	2	US-09-949-016-10187	Sequence 10187, A
416	33	51.6	2055	2	US-10-017-216-4	Sequence 4, Appl1	489	32	50.0	330	2	US-09-370-767-43389	Sequence 43389, A
417	33	51.6	2066	2	US-09-964-956-9	Sequence 9, Appl1	490	32	50.0	336	2	US-09-684-93B-179	Sequence 179, App
418	33	51.6	2119	2	US-09-583-110-4893	Sequence 4893, Ap	491	32	50.0	336	2	US-09-308-825A-179	Sequence 179, App
419	33	51.6	2123	2	US-09-107-433-3728	Sequence 3728, Ap	492	32	50.0	336	2	US-09-940-244-165	Sequence 165, App
420	33	51.6	3898	1	US-08-876-991-2	Sequence 2, Appl1	493	32	50.0	336	2	US-09-777-430C-30	Sequence 30, Appl
421	33	51.6	3898	1	US-09-059-853-2	Sequence 2, Appl1	494	32	50.0	336	2	US-09-381-212-165	Sequence 165, App
422	33	51.6	3898	2	US-08-750-717-2	Sequence 2, Appl1	495	32	50.0	336	2	US-09-713-601A-165	Sequence 165, App
423	33	51.6	3898	1	US-08-363-276B-13	Sequence 13, Appl	496	32	50.0	338	2	US-09-602-777A-262	Sequence 262, App
424	32	50.0	12	2	US-08-817-811-24	Sequence 24, Appl	497	32	50.0	333	1	US-08-599-171A-28	Sequence 28, Appl
425	32	50.0	12	2	US-08-755-034-13	Sequence 13, Appl	498	32	50.0	333	1	US-08-646-590B-28	Sequence 28, Appl
426	32	50.0	12	4	PCT-US95-16718-13	Sequence 13, Appl	499	32	50.0	333	2	US-09-069-226-28	Sequence 28, Appl
427	32	50.0	12	4	PCT-US96-08895-13	Sequence 13, Appl	500	32	50.0	343	2	US-09-412-184-28	Sequence 28, Appl
428	32	50.0	53	2	US-09-621-976-7451	Sequence 7451, Ap	501	32	50.0	361	2	US-09-790-179-2	Sequence 2, Appl1
429	32	50.0	58	2	US-09-621-976-5934	Sequence 5934, Ap	502	32	50.0	361	2	US-10-165-800-2	Sequence 2, Appl1
430	32	50.0	65	2	US-09-107-433-3149	Sequence 3149, Ap	503	32	50.0	363	2	US-09-755-665-58	Sequence 58, Appl
431	32	50.0	67	2	US-10-002-344A-228	Sequence 228, App	504	32	50.0	368	2	US-09-248-796A-19026	Sequence 19026, A
432	32	50.0	71	6	5187079-2	Patent No. 5187079	505	32	50.0	375	2	US-09-710-000-8	Sequence 8, Appl1
433	32	50.0	71	2	US-10-125-258-115	Sequence 115, App	506	32	50.0	383	2	US-09-134-001C-3429	Sequence 3429, Ap
434	32	50.0	96	2	US-10-125-258-113	Sequence 113, App	507	32	50.0	383	2	US-10-057-531A-5	Sequence 5, Appl1
435	32	50.0	98	2	US-09-248-796A-23965	Sequence 23965, A	508	32	50.0	384	2	US-09-107-532A-518	Sequence 518, Ap
436	32	50.0	99	2	US-09-583-110-8742	Sequence 4742, Ap	509	32	50.0	384	2	US-10-094-944-19	Sequence 19, Appl
437	32	50.0	101	2	US-10-290-579A-220	Sequence 220, App	510	32	50.0	385	2	US-09-270-767-44110	Sequence 44110, A
438	32	50.0	111	2	US-09-270-767-58632	Sequence 58632, A	511	32	50.0	389	1	US-08-605-106-13	Sequence 13, Appl
439	32	50.0	113	2	US-09-134-000C-5082	Sequence 5082, Ap	512	32	50.0	391	2	US-09-198-452A-921	Sequence 921, App
440	32	50.0	113	2	US-09-248-796A-17728	Sequence 17728, A	513	32	50.0	391	2	US-09-438-185A-855	Sequence 855, App
441	32	50.0	116	2	US-09-732-210-691	Sequence 691, App	514	32	50.0	391	2	US-10-057-531A-7	Sequence 7, Appl1
442	32	50.0	121	2	US-09-732-210-109	Sequence 109, App	515	32	50.0	393	2	US-10-057-531A-3	Sequence 3, Appl1
443	32	50.0	133	2	US-09-513-999C-4968	Sequence 4968, Ap	516	32	50.0	394	2	US-08-195-705-2	Sequence 2, Appl1
444	32	50.0	136	2	US-09-252-981A-21341	Sequence 21341, A	517	32	50.0	394	2	US-08-195-705-2	Sequence 2, Appl1
445	32	50.0	147	2	US-09-543-681A-5412	Sequence 5412, Ap	518	32	50.0	394	2	US-09-500-376-2	Sequence 2, Appl1
446	32	50.0	152	2	US-09-777-558-6	Sequence 6, Appl1	519	32	50.0	394	2	US-09-500-376-3	Sequence 3, Appl1
447	32	50.0	157	2	US-09-107-532A-4454	Sequence 4454, Ap	520	32	50.0	402	2	US-09-500-376-16	Sequence 16, Appl
448	32	50.0	172	2	US-09-777-558-114	Sequence 114, Appl	521	32	50.0	411	2	US-10-104-047-3452	Sequence 3452, App
449	32	50.0	174	2	US-09-270-767-59529	Sequence 59529, A	522	32	50.0	418	2	US-09-252-991A-25075	Sequence 25075, A
450	32	50.0	183	2	US-09-777-558-20	Sequence 20, Appl	523	32	50.0	424	2	US-09-949-016-6159	Sequence 6159, Ap
451	32	50.0	185	2	US-09-949-016-6762	Sequence 6762, Ap	524	32	50.0	431	2	US-10-057-531A-8	Sequence 8, Appl1
452	32	50.0	187	6	5196523-13	Patent No. 5196523	525	32	50.0	432	2	US-09-949-016-8060	Sequence 8060, Ap
453	32	50.0	191	2	US-09-252-991A-18479	Sequence 18479, A	526	32	50.0	432	2	US-09-949-016-8081	Sequence 8081, Ap
454	32	50.0	198	2	US-08-529-055-36	Sequence 36, Appl	527	32	50.0	441	2	US-09-949-016-11475	Sequence 11475, A
455	32	50.0	199	2	US-09-581-001B-7	Sequence 7, Appl1	528	32	50.0	456	2	US-09-302-540-11127	Sequence 1127, A
456	32	50.0	210	2	US-09-853-450-36	Sequence 36, Appl	529	32	50.0	472	1	US-08-194-338-6	Sequence 6, Appl1
457	32	50.0	216	1	US-08-455-543A-43	Sequence 43, Appl	530	32	50.0	473	2	US-09-538-092-1353	Sequence 1353, Ap
458	32	50.0	216	1	US-08-223-305C-43	Sequence 43, Appl	531	32	50.0	478	1	US-07-745-206A-19	Sequence 19, Appl
459	32	50.0	216	1	US-08-149-097D-39	Sequence 39, Appl	532	32	50.0	478	1	US-08-455-543A-40	Sequence 40, Appl
460	32	50.0	219	1	US-08-455-543A-44	Sequence 44, Appl	533	32	50.0	478	1	US-08-423-305C-40	Sequence 40, Appl
461	32	50.0	219	1	US-08-223-305C-44	Sequence 44, Appl	534	32	50.0	478	1	US-08-149-097D-32	Sequence 32, Appl
462	32	50.0	219	1	US-08-149-097D-40	Sequence 40, Appl	535	32	50.0	478	1	US-08-311-363-19	Sequence 19, Appl
463	32	50.0	223	2	US-09-270-767-43083	Sequence 43083, A	536	32	50.0	478	1	US-09-949-016-5982	Sequence 5982, Ap
464	32	50.0	225	2	US-08-924-747-10	Sequence 10, Appl	537	32	50.0	479	2	US-08-149-097D-38	Sequence 38, Appl
465	32	50.0	225	2	US-09-247-373B-10	Sequence 10, Appl	538	32	50.0	480	2	US-09-248-796A-14771	Sequence 14771, A

539	32	50.0	482	2	US-09-538-092-1345	Sequence 1345, Ap	612	32	50.0	808	2	US-08-971-188-12	Sequence 12, Appl
540	32	50.0	483	2	US-09-902-540-10828	Sequence 10828, A	613	32	50.0	812	2	US-09-402-936-12	Sequence 12, Appl
541	32	50.0	484	2	US-09-770-509-18	Sequence 10, Appl	614	32	50.0	808	2	US-10-104-047-2027	Sequence 2027, Ap
542	32	50.0	493	2	US-09-949-016-7613	Sequence 7613, Ap	615	32	50.0	832	2	US-09-248-796A-18967	Sequence 18967, A
543	32	50.0	494	2	US-09-949-016-9836	Sequence 9836, Ap	616	32	50.0	845	2	US-09-198-452A-458	Sequence 458, Ap
544	32	50.0	502	2	US-09-902-540-15536	Sequence 15536, A	617	32	50.0	848	1	US-08-045-806-4	Sequence 4, Appl
545	32	50.0	514	2	US-08-925-230-7	Sequence 7, Appl	618	32	50.0	848	1	US-08-366-051B-8	Sequence 4, Appl
546	32	50.0	514	2	US-08-925-230-8	Sequence 8, Appl	619	32	50.0	849	1	US-09-949-016-7582	Sequence 7582, Ap
547	32	50.0	514	2	US-09-712-372-7	Sequence 7, Appl	620	32	50.0	873	2	US-09-543-681A-7315	Sequence 7315, Ap
548	32	50.0	514	2	US-09-712-372-8	Sequence 8, Appl	621	32	50.0	881	2	US-09-664-958-10	Sequence 10, Appl
549	32	50.0	514	2	US-09-538-092-913	Sequence 913, Ap	622	32	50.0	901	2	US-09-134-001C-5389	Sequence 5389, Ap
550	32	50.0	518	2	US-09-625-972-23	Sequence 23, Appl	623	32	50.0	901	2	US-09-710-279-342	Sequence 342, Ap
551	32	50.0	523	1	US-08-455-543A-42	Sequence 42, Appl	624	32	50.0	901	2	US-09-949-016-11545	Sequence 11545, A
552	32	50.0	523	1	US-08-223-305C-42	Sequence 42, Appl	625	32	50.0	912	2	US-09-664-958-8	Sequence 8, Appl
553	32	50.0	524	1	US-08-336-257A-6	Sequence 6, Appl	626	32	50.0	914	2	US-09-134-001C-5208	Sequence 5208, Ap
554	32	50.0	524	2	US-09-252-991A-19294	Sequence 19294, A	627	32	50.0	917	2	US-09-248-796A-18960	Sequence 18960, A
555	32	50.0	524	6	5386025-4	Patent No. 5386025	628	32	50.0	927	2	US-09-328-152-7922	Sequence 7922, Ap
556	32	50.0	525	2	US-10-002-344A-201	Sequence 201, Ap	629	32	50.0	963	1	US-08-537-002A-3	Sequence 3, Appl
557	32	50.0	545	2	US-08-506-296B-75	Sequence 75, Appl	630	32	50.0	963	2	US-08-863-010-3	Sequence 3, Appl
558	32	50.0	546	2	US-09-489-039A-9627	Sequence 9627, Ap	631	32	50.0	963	2	US-09-024-429-3	Sequence 3, Appl
559	32	50.0	546	2	US-10-057-531A-1	Sequence 1, Appl	632	32	50.0	966	2	US-09-252-991A-27018	Sequence 27018, A
560	32	50.0	554	2	US-08-895-590-9	Sequence 9, Appl	633	32	50.0	966	2	US-08-324-977-50	Sequence 50, Appl
561	32	50.0	564	2	US-09-107-532A-6970	Sequence 6970, Ap	634	32	50.0	997	1	US-08-384-616-50	Sequence 50, Appl
562	32	50.0	568	2	US-09-902-540-12891	Sequence 12891, A	635	32	50.0	997	1	US-08-304-686A-50	Sequence 50, Appl
563	32	50.0	573	2	US-09-338-352-4675	Sequence 4675, A	636	32	50.0	997	1	US-09-315-850-50	Sequence 50, Appl
564	32	50.0	576	2	US-09-541-990A-1	Sequence 1, Appl	637	32	50.0	1031	2	US-09-914-259-24	Sequence 24, Appl
565	32	50.0	591	2	US-08-952-981A-1	Sequence 1, Appl	638	32	50.0	1031	1	US-08-254-989-2	Sequence 2, Appl
566	32	50.0	591	2	US-09-720-095A-2	Sequence 2, Appl	639	32	50.0	1055	2	US-09-710-279-3154	Sequence 3154, Ap
567	32	50.0	593	2	US-09-557-877-12	Sequence 12, Appl	640	32	50.0	1100	2	US-09-328-303-9	Sequence 9, Appl
568	32	50.0	593	2	US-09-597-877-23	Sequence 23, Appl	641	32	50.0	1110	2	US-09-946-339-9	Sequence 9, Appl
569	32	50.0	598	1	US-08-455-543A-41	Sequence 41, Appl	642	32	50.0	1201	2	US-09-098-981-2	Sequence 2, Appl
570	32	50.0	598	1	US-08-223-305C-41	Sequence 41, Appl	643	32	50.0	1268	2	US-08-506-296B-28	Sequence 28, Appl
571	32	50.0	598	1	US-08-149-097D-33	Sequence 33, Appl	644	32	50.0	1268	2	US-09-538-092-1235	Sequence 1235, Ap
572	32	50.0	607	2	US-08-714-741-46	Sequence 46, Appl	645	32	50.0	1279	2	US-09-710-279-3188	Sequence 3188, Ap
573	32	50.0	607	2	US-09-949-016-11614	Sequence 11614, A	646	32	50.0	1284	2	US-09-343-494-9	Sequence 9, Appl
574	32	50.0	611	2	US-09-107-532A-4988	Sequence 4988, Ap	647	32	50.0	1284	2	US-09-358-583C-11	Sequence 11, Appl
575	32	50.0	621	2	US-09-898-297-1	Sequence 1, Appl	648	32	50.0	1284	2	US-10-160-224-9	Sequence 9, Appl
576	32	50.0	621	2	US-09-995-099-1	Sequence 1, Appl	649	32	50.0	1290	2	US-09-107-433-4339	Sequence 4399, Ap
577	32	50.0	621	2	US-10-238-282-1	Sequence 1, Appl	650	32	50.0	1297	2	US-09-328-352-6373	Sequence 6373, Ap
578	32	50.0	621	2	US-10-198-259A-1	Sequence 1, Appl	651	32	50.0	1303	2	US-09-583-110-5037	Sequence 5037, Ap
579	32	50.0	623	2	US-08-714-741-47	Sequence 47, Appl	652	32	50.0	1368	1	US-08-685-576-1	Sequence 1, Appl
580	32	50.0	623	2	US-09-618-425-13	Sequence 13, Appl	653	32	50.0	1368	1	US-08-685-576-4	Sequence 4, Appl
581	32	50.0	626	2	US-08-971-188-10	Sequence 10, Appl	654	32	50.0	1368	2	US-09-885-576-1	Sequence 26, App
582	32	50.0	626	2	US-09-374-454-21	Sequence 21, Appl	655	32	50.0	1368	2	US-09-976-594-296	Sequence 1955, A
583	32	50.0	626	2	US-09-248-796A-27023	Sequence 27023, A	656	32	50.0	1368	1	US-08-750-532-9	Sequence 9, Appl
584	32	50.0	626	2	US-09-402-936-10	Sequence 10, Appl	657	32	50.0	1368	2	US-08-894-818B-8	Sequence 8, Appl
585	32	50.0	626	2	US-10-104-047-1199	Sequence 2199, Ap	658	32	50.0	1368	2	US-09-445-472-6	Sequence 6, Appl
586	32	50.0	644	1	US-09-710-279-1436	Sequence 1436, Ap	659	32	50.0	1368	2	US-10-090-624-6	Sequence 6, Appl
587	32	50.0	654	1	US-08-441-139-11	Sequence 11, Appl	660	32	50.0	1368	2	US-09-841-553-8	Sequence 8, Appl
588	32	50.0	654	2	US-09-919-172-54	Sequence 54, Appl	661	32	50.0	1431	2	US-09-902-540-10614	Sequence 10614, A
589	32	50.0	654	2	US-09-919-039-160	Sequence 260, App	662	32	50.0	1487	2	US-09-489-039A-12113	Sequence 12113, A
590	32	50.0	658	2	US-08-895-590-10	Sequence 10, Appl	663	32	50.0	1566	1	US-08-687-956A-23	Sequence 23, Appl
591	32	50.0	681	2	US-09-328-352-5666	Sequence 5666, Ap	664	32	50.0	1940	2	US-09-538-092-901	Sequence 901, App
592	32	50.0	689	2	US-09-134-000C-4499	Sequence 4499, Ap	665	32	50.0	1963	2	US-09-949-016-8888	Sequence 8888, Ap
593	32	50.0	702	2	US-09-328-352-8176	Sequence 8176, Ap	666	32	50.0	1965	2	US-09-539-601-9	Sequence 9, Appl
594	32	50.0	708	2	US-09-602-787A-312	Sequence 312, App	667	32	50.0	1985	2	US-09-539-601-12	Sequence 12, Appl
595	32	50.0	710	2	US-09-107-532A-5067	Sequence 5067, Ap	668	32	50.0	1985	2	US-09-539-601-18	Sequence 18, Appl
596	32	50.0	712	1	US-08-468-576B-17	Sequence 17, Appl	669	32	50.0	1985	2	US-09-539-601-24	Sequence 24, Appl
597	32	50.0	712	1	US-08-468-579B-17	Sequence 17, Appl	670	32	50.0	1985	2	US-09-539-601-30	Sequence 30, Appl
598	32	50.0	712	2	US-08-468-577B-17	Sequence 17, Appl	671	32	50.0	1985	2	US-10-259-275-42	Sequence 42, Appl
599	32	50.0	713	2	US-09-602-787A-312	Sequence 312, App	672	32	50.0	2201	2	US-08-952-981A-2	Sequence 2, Appl
600	32	50.0	729	2	US-09-248-796A-17702	Sequence 17702, A	673	32	50.0	2201	2	US-09-539-601-6	Sequence 6, Appl
601	32	50.0	730	2	US-09-398-965A-2	Sequence 2, Appl	674	32	50.0	2201	2	US-09-539-601-15	Sequence 15, Appl
602	32	50.0	730	2	US-09-710-714-2	Sequence 2, Appl	675	32	50.0	2201	2	US-10-029-907-3	Sequence 3, Appl
603	32	50.0	733	2	US-09-902-540-16379	Sequence 16379, A	676	32	50.0	2201	2	US-10-309-561A-3	Sequence 3, Appl
604	32	50.0	781	2	US-09-486-147-3	Sequence 3, Appl	677	32	50.0	2547	2	US-09-058-489-35	Sequence 35, Appl
605	32	50.0	781	2	US-09-949-016-5908	Sequence 5908, Ap	678	32	50.0	2630	1	US-09-328-092-1374	Sequence 1374, Ap
606	32	50.0	803	2	US-09-154-750A-85	Sequence 85, Appl	679	32	50.0	2630	1	US-08-324-977-32	Sequence 32, Appl
607	32	50.0	803	2	US-09-665-479A-12	Sequence 12, Appl	680	32	50.0	2630	1	US-08-384-616-32	Sequence 32, Appl
608	32	50.0	803	2	US-09-949-016-6383	Sequence 6383, Ap	681	32	50.0	2630	1	US-08-904-686A-32	Sequence 32, Appl
609	32	50.0	803	2	US-09-949-016-11422	Sequence 11422, A	682	32	50.0	2630	2	US-09-315-850-32	Sequence 32, Appl
610	32	50.0	805	1	US-08-045-806-2	Sequence 2, Appl	683	32	50.0	2631	1	US-08-324-977-36	Sequence 36, Appl
611	32	50.0	805	1	US-08-366-051B-2	Sequence 2, Appl	684	32	50.0	2631	1	US-08-384-616-36	Sequence 36, Appl

685	32	50.0	2621	1	US-08-904-686A-36	Sequence 36, Appl	758	31	48.4	87	2	US-09-732-210-1526	Sequence 1526, Ap
686	32	50.0	2621	2	US-09-315-850-36	Sequence 36, Appl	759	31	48.4	91	2	US-09-107-433-3651	Sequence 3651, Ap
687	32	50.0	2972	2	US-09-579-181-2	Sequence 2, Appl1	760	31	48.4	94	2	US-09-248-796A-22921	Sequence 22921, A
688	32	50.0	2985	2	US-10-259-275-40	Sequence 40, Appl	761	31	48.4	95	2	US-09-153-447-31	Sequence 31, Appl
689	32	50.0	3010	1	US-08-324-977-2	Sequence 2, Appl1	762	31	48.4	101	2	US-09-248-796A-17689	Sequence 17689, A
690	32	50.0	3010	1	US-08-324-977-14	Sequence 14, Appl	763	31	48.4	102	2	US-09-621-976-5518	Sequence 5518, Ap
691	32	50.0	3010	1	US-08-384-616-2	Sequence 2, Appl1	764	31	48.4	110	2	US-09-902-540-14568	Sequence 14568, A
692	32	50.0	3010	1	US-08-384-616-14	Sequence 14, Appl	765	31	48.4	117	2	US-09-134-000C-6338	Sequence 6338, Ap
693	32	50.0	3010	1	US-08-904-686A-2	Sequence 2, Appl1	766	31	48.4	118	2	US-09-513-999C-4350	Sequence 4350, Ap
694	32	50.0	3010	1	US-08-904-686A-14	Sequence 14, Appl	767	31	48.4	126	2	US-09-732-210-1688	Sequence 1688, Ap
695	32	50.0	3010	2	US-09-014-416-3	Sequence 3, Appl1	768	31	48.4	129	2	US-09-716-865-16	Sequence 16, Appl
696	32	50.0	3010	2	US-09-315-850-2	Sequence 2, Appl1	769	31	48.4	131	2	US-08-858-207A-387	Sequence 387, App
697	32	50.0	3010	2	US-09-315-850-14	Sequence 14, Appl	770	31	48.4	131	2	US-09-583-110-2895	Sequence 2895, Ap
698	32	50.0	3010	2	US-09-539-601-3	Sequence 3, Appl1	771	31	48.4	134	2	US-09-732-210-804	Sequence 804, App
699	32	50.0	3010	2	US-09-539-601-21	Sequence 21, Appl	772	31	48.4	136	2	US-09-684-708A-13	Sequence 13, Appl
700	32	50.0	3010	2	US-09-539-601-27	Sequence 27, Appl	773	31	48.4	141	2	US-09-621-976-3952	Sequence 3952, Ap
701	32	50.0	3010	2	US-09-539-601-33	Sequence 33, Appl	774	31	48.4	150	2	US-09-538-092-774	Sequence 774, App
702	32	50.0	3118	2	US-09-579-181-1	Sequence 1, Appl1	775	31	48.4	155	2	US-09-640-211A-2172	Sequence 2172, Ap
703	32	50.0	3666	2	US-09-134-001C-5080	Sequence 5080, Ap	776	31	48.4	156	2	US-09-248-796A-20037	Sequence 20037, A
704	32	50.0	8991	2	US-08-714-741-32	Sequence 32, Appl	777	31	48.4	158	2	US-09-270-767-38903	Sequence 38903, A
705	32	50.0	10182	2	US-09-134-001C-3159	Sequence 3159, Ap	778	31	48.4	158	2	US-09-270-767-54120	Sequence 54120, A
706	31.5	49.2	185	2	US-09-583-110-5154	Sequence 5154, Ap	779	31	48.4	159	2	US-09-328-352-5713	Sequence 5713, Ap
707	31.5	49.2	194	2	US-09-107-433-3648	Sequence 3648, Ap	780	31	48.4	160	2	US-09-247-155-156	Sequence 156, App
708	31.5	49.2	273	2	US-09-270-767-44062	Sequence 44062, A	781	31	48.4	160	2	US-09-134-000C-6652	Sequence 6652, Ap
709	31.5	49.2	399	6	5474928-2	Patent No. 5474928	782	31	48.4	160	2	US-09-503-190-156	Sequence 156, App
710	31.5	49.2	409	2	US-09-564-5598-5	Sequence 5, Appl1	783	31	48.4	161	2	US-09-248-796A-16665	Sequence 16665, A
711	31.5	49.2	409	2	US-09-564-5598-6	Sequence 6, Appl1	784	31	48.4	161	2	US-08-946-528-8	Sequence 8, Appl1
712	31.5	49.2	409	2	US-09-564-5598-7	Sequence 7, Appl1	785	31	48.4	169	2	US-09-107-532A-6366	Sequence 6366, Ap
713	31.5	49.2	409	2	US-09-564-5598-8	Sequence 8, Appl1	786	31	48.4	171	2	US-09-270-767-39148	Sequence 39148, A
714	31.5	49.2	409	2	US-09-564-5598-9	Sequence 9, Appl1	787	31	48.4	171	2	US-09-270-767-54365	Sequence 54365, A
715	31.5	49.2	409	2	US-09-564-5598-10	Sequence 10, Appl1	788	31	48.4	173	2	US-09-270-767-58371	Sequence 58371, A
716	31.5	49.2	410	2	US-09-023-8098-1	Sequence 1, Appl1	789	31	48.4	174	2	US-09-605-7038-2016	Sequence 2016, Ap
717	31.5	49.2	410	2	US-09-723-546-1	Sequence 1, Appl1	790	31	48.4	178	2	US-09-583-110-4001	Sequence 4001, Ap
718	31	48.4	28	1	US-08-303-025-12	Sequence 12, Appl	791	31	48.4	179	2	US-09-732-210-70	Sequence 70, Appl
719	31	48.4	28	1	US-08-436-7038-1	Sequence 1, Appl1	792	31	48.4	180	2	US-09-949-016-11484	Sequence 11484, A
720	31	48.4	29	1	US-08-152-488-10	Sequence 10, Appl	793	31	48.4	180	2	US-09-107-433-4010	Sequence 4010, Ap
721	31	48.4	29	1	US-08-152-488-11	Sequence 11, Appl	794	31	48.4	187	2	US-09-107-532A-6305	Sequence 6305, Ap
722	31	48.4	29	1	US-08-152-488-12	Sequence 12, Appl	795	31	48.4	187	2	US-09-134-000C-4426	Sequence 4426, Ap
723	31	48.4	29	1	US-08-303-025-10	Sequence 10, Appl	796	31	48.4	198	2	US-09-107-433-4068	Sequence 4068, Ap
724	31	48.4	29	1	US-08-303-025-11	Sequence 11, Appl	797	31	48.4	199	2	US-09-248-796A-18083	Sequence 18083, A
725	31	48.4	29	1	US-08-303-025-13	Sequence 13, Appl	798	31	48.4	203	2	US-09-252-991A-26395	Sequence 26395, A
726	31	48.4	29	1	US-08-303-025-14	Sequence 14, Appl	799	31	48.4	217	2	US-09-583-110-3516	Sequence 3516, Ap
727	31	48.4	29	1	US-08-677-304-10	Sequence 10, Appl	800	31	48.4	218	2	US-09-107-433-4157	Sequence 4157, Ap
728	31	48.4	29	1	US-08-677-304-11	Sequence 11, Appl	801	31	48.4	226	2	US-09-902-540-9653	Sequence 9653, Ap
729	31	48.4	29	1	US-08-677-304-12	Sequence 12, Appl	802	31	48.4	234	2	US-09-198-452A-241	Sequence 241, App
730	31	48.4	29	1	US-08-436-7038-3	Sequence 3, Appl1	803	31	48.4	234	2	US-09-438-185A-232	Sequence 232, App
731	31	48.4	29	1	US-08-436-7038-15	Sequence 15, Appl	804	31	48.4	240	2	US-09-949-016-7275	Sequence 7275, Ap
732	31	48.4	29	1	US-08-436-7038-16	Sequence 16, Appl	805	31	48.4	249	2	US-08-961-083-6	Sequence 6, Appl1
733	31	48.4	29	1	US-10-280-579A-113	Sequence 113, App	806	31	48.4	249	2	US-09-536-784-6	Sequence 6, Appl1
734	31	48.4	29	1	US-10-076-622-626	Sequence 626, App	807	31	48.4	249	2	US-09-765-271A-6	Sequence 6, Appl1
735	31	48.4	32	1	US-08-152-488-13	Sequence 13, Appl	808	31	48.4	249	2	US-09-765-272A-6	Sequence 226, App
736	31	48.4	32	1	US-08-303-025-15	Sequence 15, Appl	810	31	48.4	250	2	US-08-961-083-826	Sequence 226, App
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745	31	48.4	37	2	US-09-589-768-10	Sequence 10, Appl	819	31	48.4	274	2	US-09-543-681A-5511	Sequence 5511, App
746	31	48.4	37	2	US-09-589-768-11	Sequence 11, Appl	820	31	48.4	285	2	US-09-270-767-57104	Sequence 57104, A
747	31	48.4	37	2	US-09-594-845-10	Sequence 10, Appl	821	31	48.4	294	2	US-09-270-767-41531	Sequence 41531, A
748	31	48.4	37	2	US-09-594-845-11	Sequence 11, Appl	822	31	48.4	295	2	US-09-107-433-4127	Sequence 4127, Ap
749	31	48.4	37	2	US-10-286-317-12	Sequence 12, Appl	823	31	48.4	306	2	US-09-270-767-45754	Sequence 45754, A
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847	31	48.4	359	2	US-09-902-540-16708	Sequence 16708, A	920	31	48.4	470	2	US-10-104-047-2410	Sequence 2022, Ap
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982 31 48.4 780 4 PCT-US96-09530A-2 Sequence 2, Appl1
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984 31 48.4 812 2 US-09-270-767-57403 Sequence 57403, A
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ALIGNMENTS

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RESULT 1
US-08-817-811-1
Sequence 1, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.
APPLICANT: Relf, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allan J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
TITLE OF INVENTION: COMPRISING SAME
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESS:
ADDRESSER: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817,811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FBRC-005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear

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US-08-817-811-1
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Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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US-08-817-811-1
Query Match 100.0%; Score 64; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.00081;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
US-08-937-271-11
Sequence 11, Application US/08937271
Patent No. 6063386
GENERAL INFORMATION:
APPLICANT: Dale, James B.
APPLICANT: Lederer, James W.
TITLE OF INVENTION: RECOMBINANT MULTIVALENT M PROTEIN
TITLE OF INVENTION: VACCINE
NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESS:
ADDRESSER: SEED and BERRY
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/937,271
FILING DATE: 15-SEP-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Roseman, Stephen J.
REGISTRATION NUMBER: 43,058
REFERENCE/DOCKET NUMBER: 48112.405C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 236 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-937-271-11
Query Match 100.0%; Score 64; DB 2; Length 236;
Best Local Similarity 100.0%; Pred. No. 0.0099;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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;; PRIOR FILING DATE: 1995-03-23
;; PRIOR APPLICATION NUMBER: 07/945,860
;; PRIOR FILING DATE: 1992-09-16
;; NUMBER OF SEQ ID NOS: 19
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 4
;; LENGTH: 254
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: An antigen of M5 and a carrier of the
;; OTHER INFORMATION: COOH-terminal portion of M5
US-08-914-479A-4

Query Match 100.0%; Score 64; DB 2; Length 254;
Best Local Similarity 100.0%; Pred. No. 0.011;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 4
US-08-914-479A-6
; Sequence 6, Application US/08914479A
; Patent No. 6419932
; GENERAL INFORMATION:
; APPLICANT: Dale, James B.
; TITLE OF INVENTION: ANTIGEN OF HYBRID M PROTEIN AND CARRIER
; TITLE OF INVENTION: FOR GROUP A STREPTOCOCCAL VACCINE
; FILE REFERENCE: 481112.404C2
; CURRENT APPLICATION NUMBER: US/08/914,479A
; CURRENT FILING DATE: 1997-08-19
; PRIOR APPLICATION NUMBER: 08/409,270
; PRIOR FILING DATE: 1995-03-23
; PRIOR APPLICATION NUMBER: 07/945,860
; PRIOR FILING DATE: 1992-09-16
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 284
; TYPE: PRT
; ORGANISM: Artificial Sequence
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; OTHER INFORMATION: An antigen of three fragments of M5 and a carrier
; OTHER INFORMATION: of the COOH-terminal portion of M5
US-08-914-479A-6

Query Match 100.0%; Score 64; DB 2; Length 284;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 5
US-08-937-271-10
; Sequence 10, Application US/08937271
; Patent No. 6063386
; GENERAL INFORMATION:
; APPLICANT: Dale, James B.
; APPLICANT: Lederer, James W.
; TITLE OF INVENTION: RECOMBINANT MULTIVALENT M PROTEIN
; TITLE OF INVENTION: VACCINE
; NUMBER OF SEQUENCES: 40
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington

;; COUNTRY: USA
;; ZIP: 98104
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/937,271
;; FILING DATE: 15-SEP-1997
;; CLASSIFICATION: 424
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Rosenman, Stephen J.
;; REGISTRATION NUMBER: 43,058
;; REFERENCE/DOCKET NUMBER: 481112.405C1
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (206) 622-4900
;; TELEFAX: (206) 682-6031
;; INFORMATION FOR SEQ ID NO: 10:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 305 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
US-08-937-271-10

Query Match 100.0%; Score 64; DB 2; Length 305;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEKALE 14
|||
Db 156 ASREAKKQVEKALE 169

RESULT 6
US-08-302-756E-35
; Sequence 35, Application US/08302756E
; Patent No. 6737521
; GENERAL INFORMATION:
; APPLICANT: FISCHETTI, Vincent A.
; APPLICANT: POZZI, Gianni
; TITLE OF INVENTION: DELIVERY AND EXPRESSION OF A HYBRID SURFACE PROTEIN ON
; TITLE OF INVENTION: THE SURFACE OF GRAM POSITIVE BACTERIA
; FILE REFERENCE: 016921-076
; CURRENT APPLICATION NUMBER: US/08/302,756E
; CURRENT FILING DATE: 1995-03-07
; PRIOR APPLICATION NUMBER: US 07/522,440
; PRIOR FILING DATE: 1990-05-11
; PRIOR APPLICATION NUMBER: US 07/742,199
; PRIOR FILING DATE: 1991-08-05
; PRIOR APPLICATION NUMBER: US 07/814,823
; PRIOR FILING DATE: 1991-12-23
; PRIOR APPLICATION NUMBER: US 07/851,082
; PRIOR FILING DATE: 1992-03-13
; PRIOR APPLICATION NUMBER: PCT/US93/02355
; PRIOR FILING DATE: 1993-03-12
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 35
; LENGTH: 440
; TYPE: PRT
; ORGANISM: S. pyogenes
US-08-302-756E-35

Query Match 100.0%; Score 64; DB 2; Length 440;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEKALE 14
|||
Db 292 ASREAKKQVEKALE 305

RESULT 7
US-08-795-475-6
Sequence 6, Application US/08795475
Patent No. 595390
GENERAL INFORMATION:
APPLICANT: Bjorck, Lars
APPLICANT: Sjobring, Ulf
TITLE OF INVENTION: PROTEIN L AND HYBRID PROTEINS THERMOF
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/795.475
FILING DATE: 11-FEB-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: McMaisters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 100084.402D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 443 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-795-475-6
Query Match 100.0%; Score 64; DB 1; Length 443;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ASREARKQVEKAL 14
Db 294 ASREARKQVEKAL 307
RESULT 8
US-08-325-278B-6
Sequence 6, Application US/08325278B
Patent No. 6822075
GENERAL INFORMATION:
APPLICANT: Bjorck, Lars
APPLICANT: Sjobring, Ulf
TITLE OF INVENTION: PROTEIN L AND HYBRID PROTEINS THERMOF
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Seed IP Law Group
STREET: 701 Fifth Avenue Suite 6300
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/325.278B
FILING DATE: 26-Oct-1994
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Potter, Jane E. R.
REGISTRATION NUMBER: 33,332
REFERENCE/DOCKET NUMBER: 100084.402
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 443 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-08-325-278B-6
Query Match 100.0%; Score 64; DB 2; Length 443;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ASREARKQVEKAL 14
Db 294 ASREARKQVEKAL 307
RESULT 9
US-08-817-811-34
Sequence 34, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.
APPLICANT: Relf, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allen J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817.811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION/DOCKET NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FBRC:005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-817-811-34

Query Match 87.5%; Score 56; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.0087;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 ASREAKKQVEKA 14
| | | | | | | | | | | | | |
Db 1 ASREAKKQVEKA 12

RESULT 10
US-08-817-811-11
; Sequence 11, Application US/08817811
; Patent No. 6174528
; GENERAL INFORMATION:
; APPLICANT: Cooper, Juan A.
; APPLICANT: Reif, Wendy A.
; APPLICANT: Good, Michael F.
; APPLICANT: Saul, Allan J.
; TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
; TITLE OF INVENTION: COMPRISING SAME
; NUMBER OF SEQUENCES: 97
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/817,811
; FILING DATE: 14-APR-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO 96/11944
; FILING DATE: 25-APR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Highlander, Steven L.
; REGISTRATION NUMBER: 37,642
; REFERENCE/DOCKET NUMBER: FBRC:005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512/418-3000
; TELEFAX: 512/474-7577
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
US-08-817-811-11

Query Match 85.9%; Score 55; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEKA 12
| | | | | | | | | | | | | |
Db 1 ASREAKKQVEKA 12

RESULT 11
US-08-817-811-32
; Sequence 32, Application US/08817811
; Patent No. 6174528
; GENERAL INFORMATION:
; APPLICANT: Cooper, Juan A.
; APPLICANT: Reif, Wendy A.
; APPLICANT: Good, Michael F.

; APPLICANT: Saul, Allan J.
; TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
; TITLE OF INVENTION: COMPRISING SAME
; NUMBER OF SEQUENCES: 97
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/817,811
; FILING DATE: 14-APR-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO 96/11944
; FILING DATE: 25-APR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Highlander, Steven L.
; REGISTRATION NUMBER: 37,642
; REFERENCE/DOCKET NUMBER: FBRC:005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512/418-3000
; TELEFAX: 512/474-7577
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
US-08-817-811-32

Query Match 85.9%; Score 55; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEKA 12
| | | | | | | | | | | | | |
Db 1 ASREAKKQVEKA 12

RESULT 12
US-08-817-811-33
; Sequence 33, Application US/08817811
; Patent No. 6174528
; GENERAL INFORMATION:
; APPLICANT: Cooper, Juan A.
; APPLICANT: Reif, Wendy A.
; APPLICANT: Good, Michael F.
; APPLICANT: Saul, Allan J.
; TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
; TITLE OF INVENTION: COMPRISING SAME
; NUMBER OF SEQUENCES: 97
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/817,811

FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FBRC:005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-817-811-33

Query Match 85.9%; Score 51; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 ASREAKQVKKAL 13
DB 1 ASREAKQVKKAL 12

RESULT 13
US-08-817-811-18
Sequence 18, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.
APPLICANT: Relf, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allan J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
TITLE OF INVENTION: COMPRISING SAME
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESS:
ADDRESSER: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817, 811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FBRC:005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear

US-08-817-811-18

Query Match 81.2%; Score 52; DB 2; Length 28;
Best Local Similarity 78.6%; Pred. No. 0.088;
Matches 11; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 ASREAKQVKKAL 14
DB 10 ASREAKQVKKVKK 23

RESULT 14
US-08-817-811-31

Sequence 31, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.
APPLICANT: Relf, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allan J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
TITLE OF INVENTION: COMPRISING SAME
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESS:
ADDRESSER: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817, 811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FBRC:005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-817-811-31

US-08-817-811-31

Query Match 79.7%; Score 51; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.053;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ASREAKQVKK 11
DB 2 ASREAKQVKK 12

RESULT 15

US-08-817-811-17
Sequence 17, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.
APPLICANT: Relf, Wendy A.

APPLICANT: Good, Michael F.
APPLICANT: Saul, Allan J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
TITLE OF INVENTION: COMPRISING SAME
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817,811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FBRC:005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-817-811-17

Query Match 74.2%; Score 47.5; DB 2; Length 28;
Best Local Similarity 76.5%; Pred. No. 0.45;
Matches 13; Conservative 0; Mismatches 1; Indels 3; Gaps 1;

Cy 1 ASREAKKQVE--KALE 14
|||
Db 11 ASREAKKQVEDKVKQLE 27

RESULT 16
US-08-817-811-10
Sequence 10, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.
APPLICANT: Reif, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allan J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
TITLE OF INVENTION: COMPRISING SAME
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/817,811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FBRC:005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-817-811-10

Query Match 71.9%; Score 46; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 ASREAKKQVE 10
|||
Db 3 ASREAKKQVE 12

RESULT 17
US-08-817-811-30
Sequence 30, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.
APPLICANT: Reif, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allan J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
TITLE OF INVENTION: COMPRISING SAME
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817,811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FBRC:005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
STRANDEDNESS:

TOPOLOGY: linear
US-08-817-811-30
Query Match 71.9%; Score 46; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ASREAKQVE 10
Db 3 ASREAKQVE 12

RESULT 18
US-08-817-811-38
Sequence 38, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.
APPLICANT: Reif, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allan J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
TITLE OF INVENTION: COMPRISING SAME
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESS:
ADDRESSER: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817,811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FBRC:005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 38:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-817-811-38

Query Match 71.9%; Score 46; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.55;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 5 AKQVERALE 14
Db 1 AKQVERALE 10

RESULT 19
US-08-817-811-16
Sequence 16, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.

APPLICANT: Reif, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allan J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
TITLE OF INVENTION: COMPRISING SAME
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESS:
ADDRESSER: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817,811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FBRC:005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-817-811-16

Query Match 69.5%; Score 44.5; DB 2; Length 28;
Best Local Similarity 70.6%; Pred. No. 1.3;
Matches 12; Conservative 1; Mismatches 1; Indels 3; Gaps 1;
QY 1 ASREAKQVE---KALE 14
Db 12 ASREAKQVQDKYKQLE 26

RESULT 20
US-08-937-271-18
Sequence 18, Application US/08937271
Patent No. 6063386
GENERAL INFORMATION:
APPLICANT: Dale, James B.
APPLICANT: Lederer, James W.
TITLE OF INVENTION: RECOMBINANT MULTIVALENT M PROTEIN
TITLE OF INVENTION: VACCINE
NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESS:
ADDRESSER: SEED and BERRY
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/937,271

FILING DATE: 15-SEP-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Roseman, Stephen J.
REGISTRATION NUMBER: 43,058
REFERENCE/DOCKET NUMBER: 481112.405C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 94 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-937-271-18

Query Match 67.2%; Score 43; DB 2; Length 94;
Best Local Similarity 90.0%; Pred. No. 7.8;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ASREAKQVE 10
Db 17 ASREAKQVE 26

RESULT 21
US-08-937-271-17

Sequence 17, Application US/08937271
Patent No. 6063386
GENERAL INFORMATION:
APPLICANT: Dale, James B.
TITLE OF INVENTION: RECOMBINANT MULTIVALENT M PROTEIN
TITLE OF INVENTION: VACCINE
NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESSES:
ADDRESSEE: SEED and BERRY
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/937,271
FILING DATE: 15-SEP-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Roseman, Stephen J.
REGISTRATION NUMBER: 43,058
REFERENCE/DOCKET NUMBER: 481112.405C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 343 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-937-271-17

Query Match 67.2%; Score 43; DB 2; Length 343;
Best Local Similarity 90.0%; Pred. No. 29;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ASREAKQVE 10
Db 17 ASREAKQVE 26

Db 266 ASREAKQVE 275

RESULT 22
5210183-3
Patent No. 5210183
APPLICANT: LINDAHL, GUNNAR, FRITZ, ELISABET, HEDEN, LARS-OLOF
TITLE OF INVENTION: PROTEIN ARP, WITH IMMUNOGLOBULIN A
BINDING ACTIVITY, THE CORRESPONDING VECTORS AND HOSTS, REAGENT
KIT AND PHARMACEUTICAL COMPOSITION
NUMBER OF SEQUENCES: 3
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/270,099
FILING DATE: 14-NOV-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 186,097
FILING DATE: 25-APR-1988
SEQ ID NO: 3
LENGTH: 683
5210183-3

Query Match 67.2%; Score 43; DB 6; Length 683;
Best Local Similarity 76.9%; Pred. No. 58;
Matches 10; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ASREAKQVE 13
Db 515 ASREAKQVE 527

RESULT 23
US-08-464-531-83

Sequence 83, Application US/08464531
Patent No. 5789184
GENERAL INFORMATION:
APPLICANT: FOWLES, Dana M.
APPLICANT: BROACH, Jim
APPLICANT: MANFREDI, John
APPLICANT: KLEIN, Christine
APPLICANT: MURPHY, Andrew J.
APPLICANT: PAUL, Jeremy
APPLICANT: TRUEHEART, Joshua
TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE
TITLE OF INVENTION: PHENOL SYSTEM PROTEIN SURROGATES, AND USES THEREFOR
NUMBER OF SEQUENCES: 119
CORRESPONDENCE ADDRESSES:
ADDRESSEE: BROWDY AND NEWMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/464,531
FILING DATE: 05-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/322,137
FILING DATE: 13-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/309,313
FILING DATE: 20-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/190,328
FILING DATE: 31-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/041,431
FILING DATE: 31-MAR-1993

ATTORNEY/AGENT INFORMATION:
NAME: COOPER, Iver P.
REGISTRATION NUMBER: 28, 005
REFERENCE/DOCKET NUMBER: FOLWKS=2G
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO: 83:
SEQUENCE CHARACTERISTICS:
LENGTH: 65 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-461-531-83

Query Match 65.6%; Score 42; DB 1; Length 65;
Best Local Similarity 57.1%; Pred. No. 7.7;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 ASREAKOVKALE 14
Db 18 AGRANKIKKQ 31

RESULT 24
US-08-461-598-83
Sequence 83, Application US/08461598
Patent No. 5876951
GENERAL INFORMATION:
APPLICANT: FOLWKS, Dana M.
APPLICANT: BROACH, Jim
APPLICANT: MANFREDI, John
APPLICANT: KLEIN, Christine
APPLICANT: MURPHY, Andrew J.
APPLICANT: PAUL, Jeremy
APPLICANT: TRUEHEART, Joshua
TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE
TITLE OF INVENTION: PHEROMONE SYSTEM PROTEIN SURROGATES, AND USES THEREFOR
NUMBER OF SEQUENCES: 119
CORRESPONDENCE ADDRESS:
ADDRESSER: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/461,598
FILING DATE: 05-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/322,137
FILING DATE: 13-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/309,313
FILING DATE: 20-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/190,328
FILING DATE: 31-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/041,431
FILING DATE: 31-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: COOPER, Iver P.
REGISTRATION NUMBER: 28, 005
REFERENCE/DOCKET NUMBER: FOLWKS=2F

TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO: 83:
SEQUENCE CHARACTERISTICS:
LENGTH: 65 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-461-598-83

Query Match 65.6%; Score 42; DB 1; Length 65;
Best Local Similarity 57.1%; Pred. No. 7.7;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 ASREAKOVKALE 14
Db 18 AGRANKIKKQ 31

RESULT 25
US-08-322-137-83
Sequence 83, Application US/08322137
Patent No. 610042
GENERAL INFORMATION:
APPLICANT: FOLWKS, Dana M.
APPLICANT: BROACH, Jim
APPLICANT: MANFREDI, John
APPLICANT: KLEIN, Christine
APPLICANT: MURPHY, Andrew J.
APPLICANT: PAUL, Jeremy
APPLICANT: TRUEHEART, Joshua
TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE
TITLE OF INVENTION: PHEROMONE SYSTEM PROTEIN SURROGATES, AND USES THEREFOR
NUMBER OF SEQUENCES: 119
CORRESPONDENCE ADDRESS:
ADDRESSER: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/322,137
FILING DATE: 13-OCT-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/309,313
FILING DATE: 20-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/190,328
FILING DATE: 31-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/041,431
FILING DATE: 31-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: COOPER, Iver P.
REGISTRATION NUMBER: 28, 005
REFERENCE/DOCKET NUMBER: FOLWKS=2C
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO: 83:
SEQUENCE CHARACTERISTICS:
LENGTH: 65 amino acids

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;      TYPE: amino acid
;      STRANDEDNESS: single
;      TOPOLOGY: linear
;      MOLECULE TYPE: peptide
US-08-322-137-83

```

Query Match	65.6%	Score 42:	DB 2:	Length 65:
Best Local Similarity	57.1%	Pred. No. 7.7:		
Matches 8:	Conservative 3:	Mismatches 3:	Indels 0:	Gaps 0:

Qy	1 ASREAKKQVEKALE 14
	:
Db	18 AOREANKKIEKÖLÖ 31

```

RESULT 26
US-08-307-896-1
; Sequence 1, Application US/08307896C
; Patent No. 6034071
; GENERAL INFORMATION:
; APPLICANT: Iyengar, Srinivas Ravi
; TITLE OF INVENTION: MUTANT ACTIVATED GSALPHA AND ADENYLYL
; TITLE OF INVENTION: CYCLASE 2 FOR USE AS THERAPEUTIC AGENTS
; FILE REFERENCE: 29370
; CURRENT APPLICATION NUMBER: US/08/307,896C
; CURRENT FILING DATE: 1994-09-16
; NUMBER OF SEQ. ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ. ID NO 1
; LENGTH: 360
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-08-307-896-1

```

Query Match	65.6%	Score 42;	DB 2;	Length 380;
Best Local Similarity	57.1%	Pred. No. 46;		
Matches 8; Conservative	3;	Mismatches 3;	Indels 0;	Gaps 0;

```
QY      1 ASREAKKQVEKALE 14
        | | | | : : | | :
DB      18 AQRANKKIEKQLQ 31
```

```

RESULT 27
US-09-442-349A-106
: Sequence 106, Application US/09442349A
: Patent No. 6462178
: GENERAL INFORMATION:
: APPLICANT: Wong, Yung H
: TITLE OF INVENTION: G Protein
: FILE REFERENCE: M99/0101/US
: CURRENT APPLICATION NUMBER: US/09/442,349A
: CURRENT FILING DATE: 1999-11-17
: NUMBER OF SEQ ID NOS: 116
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 106
: LENGTH: 394
: TYPE: PRT
: ORGANISM: Rattus sp.
US-09-442-349A-106

```

Query Match	65.6%	Score 42	DB 2	Length 394
Best Local Similarity	57.1%	Pred. No. 48		
Matches 8	Conservative 3	Mismatches 3	Indels 0	Gaps 0

```
Qy      1 ASREAKKQVEKALE 14
         |||||::|||:
Db      18 AQRBAKKIKQLQ 31
```

RESULT 28
PCT-US95-11808-1
; Sequence 1, Application PC/TUS9511808

GENERAL INFORMATION:
APPLICANT: Iyengar, Srinivas Ravi V.
TITLE OF INVENTION: MUTANT ACTIVATED GALPHEA AND
TITLE OF INVENTION: ADENYLYL
TITLE OF INVENTION: CYCLASE 2 FOR USE AS THERAPEUTIC AGENTS
NUMBER OF SEQUENCES: 6

ADDRESSEE: Brumbaugh, Graves, Donohue and
ADDRESSER: Raymond
STREET: 30 Rockefeller Plaza
CITY: New York
STATE: New York
COUNTRY: U.S.
ZIP: 10112-0228
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/307,896
FILING DATE: 16-SEP-1994
ATTORNEY/AGENT INFORMATION:
NAME: Clark, Richard S.
REGISTRATION NUMBER: 26,154
REFERENCE/DOCKET NUMBER: 29970 165/28755
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 408-2500
TELEFAX: (212) 765-2519

Query Match	65.6%	Score 42	DB 4	Length 394
Similarity	57.1%	Pred. No. 48		
Best Local	8	Conservative	3	Mismatches 0
Matches				Gaps 0

QY 1 ASREAKKQVEKALE 14
| | | | : : | | :
Db 18 AQREANKKIEKQLQ 31

```

RESULT 29
US-09-902-540-12745
; Sequence 12745, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 12745
;
; LENGTH: 409
;
; TYPE: PRF

```

```

; ORGANISM: Myxococcus xanthus
US-09-902-540-12745

Query Match      65.6%; Score 42; DB 2; Length 409;
Best Local Similarity 57.1%; Pred. No. 50;
Matches 8; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      1 ASREAKQOVERALE 14
Db      230 AQRANKKIKERLE 243

RESULT 30
US-09-513-838-6
; Sequence 6, Application US/09513838
; Patent No. 6420563
; GENERAL INFORMATION:
; APPLICANT: Beeley, Nigel R
; APPLICANT: Behan, Dominic P
; APPLICANT: Chalmers, Derek T
; APPLICANT: Menzaghi, Frederique
; APPLICANT: Strah-Pleyret, Sonja
; TITLE OF INVENTION: Small Molecule Modulators of G Protein-Coupled Receptor
; TITLE OF INVENTION: Six
; FILE REFERENCE: AREN0058
; CURRENT APPLICATION NUMBER: US/09/513,838
; CURRENT FILING DATE: 2000-02-25
; EARLIER APPLICATION NUMBER: 09/364,425
; EARLIER FILING DATE: 1999-07-30
; EARLIER APPLICATION NUMBER: 60/094,879
; EARLIER FILING DATE: 1998-07-31
; EARLIER APPLICATION NUMBER: 60/106,300
; EARLIER FILING DATE: 1998-10-30
; EARLIER APPLICATION NUMBER: 60/110,906
; EARLIER FILING DATE: 1998-12-04
; EARLIER APPLICATION NUMBER: 60/121,851
; EARLIER FILING DATE: 1999-02-26
; EARLIER APPLICATION NUMBER: 60/173,850
; EARLIER FILING DATE: 1999-12-30
; EARLIER APPLICATION NUMBER: 60/174,428
; EARLIER FILING DATE: 2000-01-04
; EARLIER APPLICATION NUMBER: 09/364,425
; EARLIER FILING DATE: 1999-07-30
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 775
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-513-838-6

Query Match      65.6%; Score 42; DB 2; Length 775;
Best Local Similarity 57.1%; Pred. No. 95;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY      1 ASREAKQOVERALE 14
Db      399 AQRANKKIKERLO 412

RESULT 31
US-10-314-048A-100
; Sequence 100, Application US/10314048A
; Patent No. 6902902
; GENERAL INFORMATION:
; APPLICANT: Unett, David J.
; APPLICANT: Chen, Ruoping
; APPLICANT: Richman, Jeremy
; APPLICANT: Connolly, Daniel
; APPLICANT: Dang, Huang T.
; APPLICANT: Choi, Bryan
; APPLICANT: Leonard, James
; APPLICANT: Hakak, Yaron
```

```

; APPLICANT: Liaw, Chen
; APPLICANT: Lowitz, Kevin P.
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Lerner, Michael
; TITLE OF INVENTION: Human G Protein-Coupled Receptors and Modulators Thereof
; TITLE OF INVENTION: for the Treatment of Metabolic-Related Disorders
; FILE REFERENCE: 22.US6.CIP
; CURRENT APPLICATION NUMBER: US/10/314,048A
; CURRENT FILING DATE: 2002-12-06
; PRIOR APPLICATION NUMBER: 10/096,511
; PRIOR FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 09/995,543
; PRIOR FILING DATE: 2001-11-27
; PRIOR APPLICATION NUMBER: 60/399,917
; PRIOR FILING DATE: 2002-07-29
; PRIOR APPLICATION NUMBER: 60/404,761
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: 60/410,747
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 161
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 100
; LENGTH: 869
; TYPE: PRT
; ORGANISM: Homo sapiens and Rat
US-10-314-048A-100
```

```

Query Match      65.6%; Score 42; DB 2; Length 869;
Best Local Similarity 57.1%; Pred. No. 11e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
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```

QY      1 ASREAKQOVERALE 14
Db      493 AQRANKKIKERLO 506

RESULT 32
US-10-314-048A-104
; Sequence 104, Application US/10314048A
; Patent No. 6902902
; GENERAL INFORMATION:
; APPLICANT: Unett, David J.
; APPLICANT: Chen, Ruoping
; APPLICANT: Richman, Jeremy
; APPLICANT: Connolly, Daniel
; APPLICANT: Dang, Huang T.
; APPLICANT: Choi, Bryan
; APPLICANT: Leonard, James
; APPLICANT: Hakak, Yaron
; APPLICANT: Liaw, Chen
; APPLICANT: Lowitz, Kevin P.
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Lerner, Michael
; TITLE OF INVENTION: Human G Protein-Coupled Receptors and Modulators Thereof
; TITLE OF INVENTION: for the Treatment of Metabolic-Related Disorders
; FILE REFERENCE: 22.US6.CIP
; CURRENT APPLICATION NUMBER: US/10/314,048A
; CURRENT FILING DATE: 2002-12-06
; PRIOR APPLICATION NUMBER: 10/096,511
; PRIOR FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 09/995,543
; PRIOR FILING DATE: 2001-11-27
; PRIOR APPLICATION NUMBER: 60/399,917
; PRIOR FILING DATE: 2002-07-29
; PRIOR APPLICATION NUMBER: 60/404,761
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: 60/410,747
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 161
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 104
```


LENGTH: 926
TYPE: PRT
ORGANISM: Homo sapiens and Rat
US-10-314-048A-104

Query Match 65.6%; Score 42; DB 2; Length 926;
Best Local Similarity 57.1%; Pred. No. 1.1e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy 1 ASREAKKOVEKALE 14
Db 550 AORANKKIEKOLQ 563

RESULT 33
US-09-826-509-587
Sequence 587, Application US/09826509
Patent No. 6806054
GENERAL INFORMATION:
APPLICANT: Lehmann-Brinuma, Karin
APPLICANT: Liaw, Chen W.
TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
TITLE OF INVENTION: Protein-Coupled Receptors
FILE REFERENCE: AREN-207
CURRENT APPLICATION NUMBER: US/09/826,509
PRIOR APPLICATION NUMBER: 2001-04-05
PRIOR FILING DATE: 2000-04-07
PRIOR APPLICATION NUMBER: 60/195,747
PRIOR FILING DATE: 1998-10-13
NUMBER OF SEQ ID NOS: 589
SOFTWARE: PatentIn Version 2.1
SEQ ID NO 587
LENGTH: 1181
TYPE: PRT
ORGANISM: Homo sapiens
US-09-826-509-587

Query Match 65.6%; Score 42; DB 2; Length 1181;
Best Local Similarity 57.1%; Pred. No. 1.5e+02;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy 1 ASREAKKOVEKALE 14
Db 805 AORANKKIEKOLQ 818

RESULT 34
US-08-817-811-67
Sequence 67, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.
APPLICANT: Relf, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allan J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
TITLE OF INVENTION: COMPRISING SAME
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/817,811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FBRC:005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 67:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-817-811-67

Query Match 64.8%; Score 41.5; DB 2; Length 28;
Best Local Similarity 64.7%; Pred. No. 3.9;
Matches 11; Conservative 2; Mismatches 1; Indels 3; Gaps 1;

Oy 1 ASREAKKOVE---KALE 14
Db 12 ASREAKKQLODKVKOLE 28

RESULT 35
US-08-817-811-29
Sequence 29, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:
APPLICANT: Cooper, Juan A.
APPLICANT: Relf, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allan J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
TITLE OF INVENTION: COMPRISING SAME
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817,811
FILING DATE: 14-APR-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: FBRC:005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
STRANDEDNESS:

TOPOLOGY: linear
US-08-817-811-29
Query Match 64.1%; Score 41; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ASREAKKOV 9
Db 4 ASREAKKOV 12
RESULT 36
US-08-960-022-14
Sequence 14, Application US/08960022
Patent No. 5976837
GENERAL INFORMATION:
APPLICANT: Jacobs, Kenneth
APPLICANT: McCoy, John M.
APPLICANT: Lavallee, Edward R.
APPLICANT: Racie, Lisa A.
APPLICANT: Merberg, David
APPLICANT: Treacy, Maurice
APPLICANT: Spaulding, Vikki
APPLICANT: Agostino, Michael J.
TITLE OF INVENTION: SECRETED PROTEINS AND POLYPEPTIDES
TITLE OF INVENTION: ENCODING THEM
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genetics Institute, Inc.
STREET: 87 Cambridgepark Drive
CITY: Cambridge
STATE: MA
COUNTRY: U.S.A.
ZIP: 02140
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/960.022
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Sprunger, Suzanne A.
REGISTRATION NUMBER: 41,323
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8284
TELEFAX: (617) 876-5851
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 514 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-960-022-14
Query Match 64.1%; Score 41; DB 1; Length 514;
Best Local Similarity 66.7%; Pred. No. 90;
Matches 8; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
QY 3 REAKKOVKALE 14
Db 407 REAKKOVKALE 418
RESULT 37
US-08-817-811-15
Sequence 15, Application US/08817811
Patent No. 6174528
GENERAL INFORMATION:

APPLICANT: Cooper, Juan A.
APPLICANT: Relf, Wendy A.
APPLICANT: Good, Michael F.
APPLICANT: Saul, Allen J.
TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
TITLE OF INVENTION: COMPRISING SAME
NUMBER OF SEQUENCES: 97
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817.811
FILING DATE: 14-Apr-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 96/11944
FILING DATE: 25-Apr-1996
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: PIRC:005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-817-811-15
Query Match 62.5%; Score 40; DB 2; Length 28;
Best Local Similarity 80.0%; Pred. No. 6.8;
Matches 8; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1 ASREAKKOV 10
Db 13 ASREAKKOV 22
RESULT 38
US-09-583-110-4222
Sequence 4222, Application US/09583110
Patent No. 6699703
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al.
TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
FILE REFERENCE: PAT00-07A
CURRENT APPLICATION NUMBER: US/09/583.110
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/107,433
PRIOR FILING DATE: 1998-06-30
PRIOR APPLICATION NUMBER: US 60/085,131
PRIOR FILING DATE: 1998-05-12
PRIOR APPLICATION NUMBER: US 60/051,553
PRIOR FILING DATE: 1997-07-02
NUMBER OF SEQ ID NOS: 5322
SEQ ID NO 4222
LENGTH: 64
TYPE: PRT
ORGANISM: Streptococcus pneumoniae
US-09-583-110-4222

Query Match 60.9%; Score 39; DB 2; Length 64;
Best Local Similarity 69.2%; Pred. No. 23;
Matches 9; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ASREAKQVEKAL 13
||:|||||
Db 5 ASREAKQVSKAL 17

RESULT 39
US-09-513-999C-4696
Sequence 4696, Application US/09513999C
Patent No. 6783961
GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Duclet, A.
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
Patent No. 6783961
FILE REFERENCE: 59, US2, REG
CURRENT FILING DATE: 2000-02-24
PRIOR FILING DATE: 1999-02-26
NUMBER OF SEQ ID NOS: 36681
SOFTWARE: Patent.pm
SEQ ID NO 4696
LENGTH: 85
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SIGNAL
LOCATION: -45..-1
OTHER INFORMATION: score 6.7
OTHER INFORMATION: seq PMLGLAARFWIS/RE
FEATURE:
NAME/KEY: UNSURE
LOCATION: 35
OTHER INFORMATION: Xaa=Asp or Glu
US-09-513-999C-4696

Query Match 60.9%; Score 39; DB 2; Length 85;
Best Local Similarity 61.5%; Pred. No. 30;
Matches 8; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 2 SREAKQVEKAL 14
||:|||||
Db 45 SRESQKEVEKERE 57

RESULT 40
US-09-107-433-3416
Sequence 3416, Application US/09107433
Patent No. 6800744
GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGN
THERAPEUTICS
NUMBER OF SEQUENCES: 5206
CORRESPONDENCE ADDRESS:
ADDRESSER: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: <Unknown>
OPERATING SYSTEM: <Unknown>
SOFTWARE: <Unknown>

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,433
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085131
FILING DATE: May 12, 1998
APPLICATION NUMBER: 60/051553
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Ariniello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-011
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 3416:
SEQUENCE CHARACTERISTICS:
LENGTH: 96 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Streptococcus pneumoniae
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1...96
SEQUENCE DESCRIPTION: SEQ ID NO: 3416:
US-09-107-433-3416

Query Match 60.9%; Score 39; DB 2; Length 96;
Best Local Similarity 69.2%; Pred. No. 34;
Matches 9; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ASREAKQVEKAL 13
||:|||||
Db 37 ASREAKQVSKAL 49

RESULT 41
US-09-964-956-19
Sequence 19, Application US/09964956
Patent NO. 6875570
GENERAL INFORMATION:
APPLICANT: Gerlach, Valerie L
APPLICANT: MacDougall, John R
APPLICANT: Smithson, Glenda
APPLICANT: Miller, Isabelle
APPLICANT: Stone, David
APPLICANT: Gunther, Erik
APPLICANT: Ellerman, Karen
APPLICANT: Grose, William M
APPLICANT: Alsobrook II, John P
APPLICANT: Lepley, Denise M
APPLICANT: Burgess, Catherine B
APPLICANT: Padigaru, Muralidhara
APPLICANT: Kerkula, Ramesh
APPLICANT: Spytek, Kimberly A
APPLICANT: Leach, Martin D
TITLE OF INVENTION: No. 6875570el Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-124
CURRENT APPLICATION NUMBER: US/09/964,956
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 60/235,631
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,633
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,808
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,064
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,065

```

; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
; PRIOR APPLICATION NUMBER: 60/238,399
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/238,396
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/276,667
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/294,823
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/304,868
; PRIOR FILING DATE: 2001-07-12
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-964-956-19
```

```

Query Match      60.9%; Score 39; DB 2; Length 442;
Best Local Similarity 72.7%; Pred. No. 1.6e+02;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```

Qy      1 ASREAKKQVEK 11
Db      317 ASQEAQKQVEK 327
```

```

RESULT 42
; Sequence 21, Application US/09964956
; Patent No. 6875570
; GENERAL INFORMATION:
; APPLICANT: Gerlach, Valerie L.
; APPLICANT: Macdougall, John R
; APPLICANT: Smithson, Glenda
; APPLICANT: Millet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Grose, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine E
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shinkels, Richard A
; TITLE OF INVENTION: No. 6875570e1 Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
```

```

; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
; PRIOR APPLICATION NUMBER: 60/238,399
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/238,396
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/276,667
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/294,823
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/304,868
; PRIOR FILING DATE: 2001-07-12
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-964-956-21
```

```

Query Match      60.9%; Score 39; DB 2; Length 442;
Best Local Similarity 72.7%; Pred. No. 1.6e+02;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```

Qy      1 ASREAKKQVEK 11
Db      317 ASQEAQKQVEK 327
```

```

RESULT 43
; Sequence 23, Application US/09964956
; Patent No. 6875570
; GENERAL INFORMATION:
; APPLICANT: Gerlach, Valerie L.
; APPLICANT: Macdougall, John R
; APPLICANT: Smithson, Glenda
; APPLICANT: Millet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Grose, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine E
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shinkels, Richard A
; TITLE OF INVENTION: No. 6875570e1 Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
```

PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/238,321
PRIOR FILING DATE: 2000-10-05
PRIOR APPLICATION NUMBER: 60/238,399
PRIOR FILING DATE: 2000-10-06
PRIOR APPLICATION NUMBER: 60/238,396
PRIOR FILING DATE: 2000-10-06
PRIOR APPLICATION NUMBER: 60/276,667
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/294,823
PRIOR FILING DATE: 2001-05-31
PRIOR APPLICATION NUMBER: 60/304,868
PRIOR FILING DATE: 2001-07-12
NUMBER OF SEQ ID NOS: 127
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 23
LENGTH: 442
TYPE: PRT
ORGANISM: Homo sapiens
US-09-964-956-23

Query Match 60.9%; Score 39; DB 2; Length 442;
Best Local Similarity 72.7%; Pred. No. 1.6e+02;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Oy 1 ASRAKKOVER 11
||:||||:
Db 317 ASRAKKOVER 327

RESULT 44
US-09-964-956-55
Sequence 55, Application US/09964956
Patent No. 6875570

GENERAL INFORMATION:
APPLICANT: Gerlach, Valerie L
APPLICANT: MacDougall, John R
APPLICANT: Smithson, Glenda
APPLICANT: Miller, Isabelle
APPLICANT: Stone, David
APPLICANT: Gunther, Erik
APPLICANT: Ellerman, Karen
APPLICANT: Grose, William M
APPLICANT: Alsobrook II, John P
APPLICANT: Lepley, Denise M
APPLICANT: Burgess, Catherine R
APPLICANT: Padigaru, Muralidhara
APPLICANT: Kekuda, Ramesh
APPLICANT: Spytek, Kimberly A
APPLICANT: Leach, Martin D
APPLICANT: Shimkets, Richard A
TITLE OF INVENTION: No. 6875570e1 Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-124
CURRENT APPLICATION NUMBER: US/09/964,956
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 60/235,631
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,633
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,808
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,064
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,065
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,066
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,135
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: 60/237,434
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/238,321
PRIOR FILING DATE: 2000-10-05

PRIOR APPLICATION NUMBER: 60/238,399
PRIOR FILING DATE: 2000-10-06
PRIOR APPLICATION NUMBER: 60/238,396
PRIOR FILING DATE: 2000-10-06
PRIOR APPLICATION NUMBER: 60/276,667
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/294,823
PRIOR FILING DATE: 2001-05-31
PRIOR APPLICATION NUMBER: 60/304,868
PRIOR FILING DATE: 2001-07-12
NUMBER OF SEQ ID NOS: 127
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 55
LENGTH: 442
TYPE: PRT
ORGANISM: Homo sapiens
US-09-964-956-55

Query Match 60.9%; Score 39; DB 2; Length 442;
Best Local Similarity 72.7%; Pred. No. 1.6e+02;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Oy 1 ASRAKKOVER 11
||:||||:
Db 317 ASRAKKOVER 327

RESULT 45
US-09-964-956-56
Sequence 56, Application US/09964956
Patent No. 6875570

GENERAL INFORMATION:
APPLICANT: Gerlach, Valerie L
APPLICANT: MacDougall, John R
APPLICANT: Smithson, Glenda
APPLICANT: Miller, Isabelle
APPLICANT: Stone, David
APPLICANT: Gunther, Erik
APPLICANT: Ellerman, Karen
APPLICANT: Grose, William M
APPLICANT: Alsobrook II, John P
APPLICANT: Lepley, Denise M
APPLICANT: Burgess, Catherine R
APPLICANT: Padigaru, Muralidhara
APPLICANT: Kekuda, Ramesh
APPLICANT: Spytek, Kimberly A
APPLICANT: Leach, Martin D
APPLICANT: Shimkets, Richard A
TITLE OF INVENTION: No. 6875570e1 Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-124
CURRENT APPLICATION NUMBER: US/09/964,956
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 60/235,631
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,633
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,808
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,064
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,065
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,066
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,135
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: 60/237,434
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/238,321
PRIOR FILING DATE: 2000-10-05
PRIOR APPLICATION NUMBER: 60/238,399
PRIOR FILING DATE: 2000-10-06
PRIOR APPLICATION NUMBER: 60/238,396

;; PRIOR FILING DATE: 2000-10-06
;; PRIOR APPLICATION NUMBER: 60/276,667
;; PRIOR FILING DATE: 2001-03-16
;; PRIOR APPLICATION NUMBER: 60/294,823
;; PRIOR FILING DATE: 2001-05-31
;; PRIOR APPLICATION NUMBER: 60/304,868
;; PRIOR FILING DATE: 2001-07-12
;; NUMBER OF SEQ ID NOS: 127
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 56
;; LENGTH: 442
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-964-956-56

Query Match 60.9%; Score 39; DB 2; Length 442;
Best Local Similarity 72.7%; Pred. No. 1.6e+02;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEK 11
|||:|||||
Db 317 ASQRAKQVEK 327

RESULT 46
US-09-270-767-45471
; Sequence 45471, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 45471
; LENGTH: 459
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-45471

Query Match 60.9%; Score 39; DB 2; Length 459;
Best Local Similarity 53.8%; Pred. No. 1.7e+02;
Matches 7; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASREAKKQVEK 13
|||:|||||
Db 287 ASQRAKQVEK 299

RESULT 47
US-08-817-811-8
; Sequence 8, Application US/08817811
; Patent No. 6174528
; GENERAL INFORMATION:
; APPLICANT: Cooper, Juan A.
; APPLICANT: Relf, Wendy A.
; APPLICANT: Good, Michael F.
; APPLICANT: Saul, Allan J.
; TITLE OF INVENTION: SYNTHETIC PEPTIDES AND VACCINES
; TITLE OF INVENTION: COMPRISING SAME
; NUMBER OF SEQUENCES: 97
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P O Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/817,811
;; FILING DATE: 14-Apr-1997
;; CLASSIFICATION: 424
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: WO 96/11944
;; FILING DATE: 25-APR-1996
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Highlander, Steven L.
;; REGISTRATION NUMBER: 37,642
;; REFERENCE/DOCKET NUMBER: FBRC:005
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 512/418-3000
;; TELEFAX: 512/474-7577
;; INFORMATION FOR SEQ ID NO: 8:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 8 amino acids
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
US-08-817-811-8

Query Match 59.4%; Score 38; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 REAKQVE 10
|||||
Db 1 REAKQVE 8

RESULT 48
5304631-14
; Patent No. 5304631
; APPLICANT: STEWART, JOHN M.; HAHN, KARL W.; KLIS, WISLAW A.
; TITLE OF INVENTION: SYNTHETIC HELIXIME ENZYMES
; NUMBER OF SEQUENCES: 16
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/464,932
; FILING DATE: 16-JAN-1990
; SEQ ID NO:14
; LENGTH: 19
5304631-14

Query Match 59.4%; Score 38; DB 6; Length 19;
Best Local Similarity 72.7%; Pred. No. 9.4;
Matches 8; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 4 EAKKQVEKALE 14
|||||
Db 3 EAKKAKKLE 13

RESULT 49
US-09-248-796A-27030
; Sequence 27030, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Melnick et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 27030
; LENGTH: 78

; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-27030

Query Match 59.4%; Score 38; DB 2; Length 78;
Best Local Similarity 42.9%; Pred. No. 40;
Matches 6; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

OY 1 ASREAKKQVEKALE 14
:|::|||:|::|
Db 9 SSKKKKKQISKSME 22

RESULT 50
US-09-861-451A-58
; Sequence 58, Application US/09861451A
; Patent No. 6759516
; GENERAL INFORMATION:
; APPLICANT: Commonwealth Scientific & Industrial Research Orga
; TITLE OF INVENTION: Methods of Identifying Antigen Gene Sequences
; FILE REFERENCE: PF34033/01
; CURRENT APPLICATION NUMBER: US/09/861,451A
; CURRENT FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: PF7273
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 58
; LENGTH: 174
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Deduced protein
US-09-861-451A-58

Query Match 59.4%; Score 38; DB 2; Length 174;
Best Local Similarity 53.8%; Pred. No. 89;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

OY 2 SREAKKQVEKALE 14
:|::|||:|::|
Db 124 TREIKKIKIKIKALE 136

Search completed: March 28, 2006, 19:03:56
Job time : 58 secs

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